

**1016 WASHINGTON AVENUE  
BRONX, NEW YORK**

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# **Remedial Investigation Report**

**E-Designation E-118  
CEQR No. 03DCP046X  
NYCDEP No. 08DEPTECH166X  
NYC VCP Site Number: 12CVCP043X  
E-Designation Site Number: 12EHAZ312X**

**Prepared for:  
Joy Construction Corporation  
40 Fulton Street, 21<sup>st</sup> Floor  
New York, NY 10038**

**Prepared by:  
Brinkerhoff Environmental Services, Inc.  
1805 Atlantic Avenue  
Manasquan, New Jersey 08736**

**FEBRUARY 2012**

# REMEDIAL INVESTIGATION REPORT

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## LIST OF ACRONYMS

<b>Acronym</b>	<b>Definition</b>
AOC	Area of Concern
EEA	Energy & Environmental Analysts, Inc.
ELAP	Environmental Laboratory Approval Program
EPA	Environmental Protection Agency
EPDSCO	Environmental Project Data Statements Company
ESA	Environmental Site Assessment
FDNY	New York City Fire Department
GQS	Groundwater Quality Standards
HAZWOPER	Hazardous Waste Operations and Emergency Response
mg/kg	milligram per kilogram
NYC VCP	New York City Voluntary Cleanup Program
NYSDOH	New York State Department of Health
NYSDEC	New York State Department of Environmental Conservation
OSHA	Occupational Safety and Health Administration
OVM	Organic Vapor Meter
PAHs	Poly-Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethene
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SVOCs	Semi-Volatile Organic Compounds
TAL	Target Analyte List
ug/m3	Micrograms per Cubic Meter
TOGS	Technical and Operational Guidance Series
VOCs	Volatile Organic Compounds

## CERTIFICATION

I, Doug Harn, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 1016-1026 Washington Avenue, Bronx. I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.



2/1/12

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Qualified Environmental Professional

Date

Signature

## **EXECUTIVE SUMMARY**

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The Remedial Investigation (RI) described in this document is consistent with applicable guidance.

### **Site Location and Current Usage**

The Site is located at 1016 Washington Avenue in the Bronx, New York, and is identified as Block 2369, Lots 12, 13, 14 and 16, on the New York City Tax Map. Refer to Figure 1 - Site Location Map and Figure 2 – Tax Map. The Site is approximately 13,000 square feet and is bounded by Washington Avenue to the west, East 165<sup>th</sup> Street to the north, and Weiher Court to the south. The property is presently vacant undeveloped land. The area surrounding the subject site consists of a mix of residential and commercial properties.

### **Summary of Proposed Redevelopment Plan**

The Applicant proposes to construct a new 12-story mixed use (residential/commercial) building which will encompass the entire property. The Applicant proposes to excavate soil to a maximum depth of 13 feet below existing grade to allow the construction of a below grade mechanical storage room and a below grade parking garage. Commercial space is proposed for the first floor, with residential units comprising the remaining floors. The residential units will be affordable housing. No grade-level open space is proposed for this project. The current zoning designation is R7-2 residential with a M1-1 manufacturing overlay. The proposed use is consistent with existing zoning for the property. Approximately 6,500 cubic yards of soil/fill will be excavated for the basement level. Groundwater at the site is approximately 10 feet and as such, excavation is expected to reach groundwater.

### **Summary of Past Uses of Site and Areas of Concern**

The subject site has been historically utilized from around 1927 to 2005 as primarily residential, as well as a grocery store at 1022-1024 Washington Avenue for the years 1927 and 1940.

The following Areas of Concern (AOCs) were identified during completion of the Phase I

Environmental Site Assessment (ESA).

1. The possible presence of one or more fuel oil tanks at the subject property.
2. The presence of soils containing levels of poly-aromatic hydrocarbons (PAHs) and heavy metals at the site which exceed New York State Department of Environmental Conservation (NYSDEC) recommended soil cleanup guidelines.

## **Summary of the Work Performed under the Remedial Investigation**

The following work has been performed at the site:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e., structures, buildings, etc.);
2. Eight (8) soil borings were installed across the entire project Site and 16 soil samples were collected from the soil borings for chemical analyses to evaluate soil quality;
3. Three (3) groundwater monitoring points were installed throughout the site and three (3) groundwater samples were collected for chemical analysis to evaluate groundwater quality; and,
4. Three (3) soil vapor probes were installed and three (3) soil vapor samples were collected for laboratory analysis.

## **Summary of Environmental Findings**

1. The general elevation of the subject property is approximately 30 feet above sea level.
2. Depth to groundwater is approximately 10 feet at the Site.
3. Groundwater flow is generally toward the southwest beneath the Site, based on topography.
4. The stratigraphy of the site, from the surface down, consists of urban fill (brick, asphalt, cinders, and ash in a tan medium grained silty-sand matrix) to approximately 6 to 8 below grade. A native medium grained tan silty-sand with small proportion of medium grained gravel is present immediately below the urban fill layer throughout the site.
5. Soil/fill samples collected during the RI indicated that no samples exceed Track I Unrestricted SCOs for VOCs and polychlorinated biphenyls (PCBs). Five SVOCs exceeded Track II Residential Use SCOs in shallow soil samples (0-2'). All SVOC's exceedances were for PAH compounds. There were no exceedences of Track I Unrestricted SOCs for SVOCs in the deeper soil samples (from 10-12'). Several Pesticides including 4,4'-DDT and its derivatives exceeded Track I Unrestricted Use SCOs but were all under Restricted Use Residential SCOs. Lead (maximum of

1,150mg/kg), barium (maximum 2,620mg/kg), cadmium (maximum of 8.85mg/kg) in shallow and deep samples exceeded Track I Unrestricted Use SCOs and Track II Residential Use SCOs. Chromium and nickel exceeded Track I SCOs for metals but were under Track II SCOs for Residential Use. Overall, findings for soil were unremarkable and did not show a source of contamination on this property. Low levels of contamination are consistent with findings of historic fill on the property. Groundwater samples collected during the RI showed no VOCs, SVOCs, or PCBs at concentration exceeding the above 6NYCRR Part 703.5 Class GA Groundwater Quality Standards (GQS). Two (2) Pesticides were detected in a groundwater sample at concentrations slightly exceeding 6NYCRR Part 703.5 Class GA Groundwater Quality Standards (GQS). They include chlordane and 4,4'-DDT which were both detected at maximum concentrations below 1ppb. All other pesticides in groundwater were below GQS. Several metals were detected in groundwater samples at concentrations exceeding their respective GQS. Dissolved metals did not exceed GQS for any sample except sodium. Findings suggest a possible offsite source such as road salting. Overall, groundwater did not show any contaminant sources on the property and were consistent with findings for soil.

6. Soil vapor samples collected during the RI showed VOCs in soil vapor with highest concentrations for tetrachloroethene (PCE) at elevated concentrations at all three (3) sample locations ranging from 54-100ug/m<sup>3</sup>. Benzene was detected at low concentrations ranging from 32 ug/m<sup>3</sup> to 51 ug/m<sup>3</sup>. PCE was not observed in the groundwater samples and findings suggest an offsite source area.

# **REMEDIAL INVESTIGATION REPORT (RIR)**

## **1.0 SITE BACKGROUND**

Joy Construction Corporation has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.32-acre site located at 1016 Washington Avenue, Bronx, New York. The property is presently vacant land. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

### **1.1 SITE LOCATION AND CURRENT USAGE**

The Site is located at 1016 Washington Avenue, Bronx, New York, and identified as Block 2369, Lots 12, 13, 14 and 16, on the New York City Tax Map. Refer to Figure 1 - Site Location Map and Figure 2 – Tax Map. The Site is approximately 13,850 square feet and is bounded by Washington Avenue to the west, Weiher Court on the south, East 165th Street on the north, and a church on the east. The property is presently vacant land.

### **1.2 PROPOSED REDEVELOPMENT PLAN**

The Applicant proposes to construct a new 12-story mixed use (residential/commercial) building which will encompass the entire property. The Applicant proposes to excavate soil to a maximum depth of 13 feet below existing grade to allow the construction of a below grade mechanical storage room and a below grade parking garage. Commercial space is proposed for the first floor, with residential units comprising the remaining floors. The residential units will be affordable housing. No grade-level open space is proposed for this project. The current zoning designation is R7-2 residential with a M1-1 manufacturing overlay. The proposed use is consistent with existing zoning for the property. Approximately 6,500 cubic yards of soil/fill will be excavated for the basement level. Groundwater at the site is approximately 10 feet and as such, excavation is expected to reach groundwater. Architectural drawings are provided in Appendix III.

### **1.3 DESCRIPTION OF SURROUNDING PROPERTY**

Based on information contained in the Phase I ESA, the subject site is adjoined to the north (across East 165th Street) by the New Zion Pilgrim Baptist Church, the Women of Colors Family Childcare Network, Inc., and by the Great Evangelist Mission Pentecostal Church. To the south of the site is a parking lot for cars, trucks and buses. Adjacent and to the east of the site is the Nazareth Baptist Church and a new building under construction. Adjacent to the west of the site (across Washington Avenue) is a small auto repair garage (ABR Service), a former gasoline filling station and a residential apartment building. Land uses in the immediate area of the site are a mix of residential uses, retail stores, vacant lots, commercial and warehousing businesses, light industrial uses and auto-related uses (e.g., parking lots, repair stations, etc.). An underground gasoline tank vent line was observed protruding above the roof of the adjoining Nazareth Baptist Church and two (2) underground tank vent lines were observed protruding from the roof of the nearby Ambassador Fuel & Oil Burner Corp., located approximately 100 feet northwest of the site. A review of Sanborn historical maps shows that, in general, land uses in the area of the subject property have included a mix of residential, retail, commercial and warehousing, light industrial and auto-related uses since at least the 1950s.

## **2.0 SITE HISTORY**

### **2.1 PAST USES AND OWNERSHIP**

Based on information contained in the Phase I ESA, subject lots 12 and 13 were occupied by five-story residential apartment buildings from at least 1909 until the late 1970s/early 1980s when the buildings were demolished. These lots remained vacant land from the early 1980s until at least the mid-1990s, after which time they were used for automobile parking. There were not any former businesses or facilities that typically store or use hazardous materials identified on these lots in the information reviewed. Lots 14 and 16 of the site were occupied by five-story residential apartment buildings with first floor retail stores from circa 1914 to the late 1970s, when the buildings were demolished. These lots remained vacant land from the late 1970s until at least the mid-1990s, after which time they were used for automobile parking. Two laundry businesses (Shank Jules Laundry and Vernon Laundry) are listed in the former building at 1020 Washington Avenue in the 1940 New York Telephone address directory.

## 2.2 PREVIOUS INVESTIGATIONS

The following environmental work plans and reports were developed for the Site:

- *Phase I ESA, dated July 2008, prepared by Environmental Project Data Statements Company (EPDSCO).*
- *Phase II SI, dated June 26, 2008, prepared by Energy & Environmental Analysts, Inc. (EEA)*

## 2.3 SITE INSPECTION

Brinkerhoff Environmental Services, Inc. (Brinkerhoff) performed a site inspection of the subject property in order to identify potential recognized environmental conditions which may exist at the site.

### ***Current Operations/Hazardous Materials***

At the time of the site visit, the subject property is vacant. There were not any operations involving the storage or use of hazardous materials observed at the site. In addition, there were not any indications of past on-site storage or use of hazardous materials observed.

### ***Drainage Structures***

There were not any drainage structures, such as floor drains, trench drains, drywells, storm drains, etc., observed at the site during the site visit.

### ***Monitoring Wells***

No groundwater monitoring wells were identified on the property.

### ***Petroleum Storage Tanks***

There were not any tank fillports, vent lines, or other visible indications of the presence of underground storage tanks observed on the subject property or in the sidewalks adjoining the subject property at the time of the site visit. No aboveground tanks were observed on the site. The site does not appear in the NYSDEC Petroleum Bulk Storage database, which lists all registered facilities with a petroleum storage capacity in excess of 1,100 gallons.

It should be noted that the buildings which formerly occupied the subject site may have been heated by oil-fired systems with associated fuel oil storage tanks. Any fuel oil tanks which were not removed from the site prior to the demolition of the former buildings could remain at the property. Therefore, if any tanks are discovered at the site during redevelopment, they

should be properly removed in accordance with all applicable New York City Fire Department (FDNY) and NYSDEC requirements.

### ***PCBs***

There were not any electrical transformers or other equipment suspected of containing PCBs observed on the subject property during the site visit.

### ***Asbestos-Containing Materials***

No buildings are present on the site, thus no asbestos-containing materials are suspected to be present.

### ***Lead-Based Paint***

No buildings are present on the site, thus no lead-based paint is suspected to be present.

### ***Potable Water Supply***

Potable water is supplied to the area of the subject site through the New York City Municipal water supply system, which obtains water from upstate reservoirs.

## **2.4 AREAS OF CONCERN (AOCs)**

The following AOCs were identified during completion of the Phase I ESA.

1. The possible presence of one or more fuel oil tanks at the subject property.
2. The presence of soils containing levels of PAHs and heavy metals at the site which exceed NYSDEC recommended soil cleanup guidelines.

## **3.0 PROJECT MANAGEMENT**

### **3.1 PROJECT ORGANIZATION**

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Doug Harm.

### **3.2 HEALTH AND SAFETY**

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and Occupational Safety and Health Administration (OSHA) worker safety requirements and Hazardous Waste Operations and Emergency Response (HAZWOPER) requirements.

### **3.3 MATERIALS MANAGEMENT**

All material encountered during the RI was managed in accordance with applicable laws and regulations.

## **4.0 REMEDIAL INVESTIGATION ACTIVITIES**

The following work has been performed at the site:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e., structures, buildings, etc.);
2. Conducted a geophysical investigation of subsurface;
3. Installed eight (8) soil borings across the entire project Site and collected sixteen (16) soil samples from the soil borings for chemical analyses to evaluate soil quality;
4. Three (3) groundwater samples (B-3W, B-5W, and B-8W) were collected from the subject property to investigate the subsurface groundwater quality at the property; and,
5. Installed three (3) soil vapor/sub-slab sample probes and collected three (3) soil vapor samples for laboratory analysis

Sampling performed as part of the field investigation was conducted for all AOCs and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater, and soil vapor have been sampled and evaluated in the RIR. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

### **4.1 SOIL**

Sampling for soil performed as part of the field investigation was conducted for all AOCs and other means were considered for bias of sampling based on professional judgment, area history, discolored soil, drainage patterns, field instrument measurements, odor, or other field indicators. Discrete (grab) samples were collected to determine the nature and extent of contamination and to determine the impact of contaminants on public health and the environment.

On May 21, 2008, EEA conducted activities on the subject property. The soil borings were conducted using a Geoprobe LT 54 drill rig for all eight (8) borings. The locations of the borings are shown on Figure 3. A total of eight (8) soil borings with sampling designation B-1 through B-8 were conducted on-site. A total of 16 soil samples were collected as part of this investigation. Samples were field screened for volatile organic vapors using an organic vapor meter (OVM).

EEA collected one (1) 0-to-2 foot and one (1) 10-to-12 foot soil sample from all the soil borings. The samples were directed toward those areas likely to have accumulated the highest contaminant levels as observed during sampling. Soils at the site consist of medium to fine brown sand and silt intermixed with medium to fine gravels and traces of cinder, asphalt, and coal ash, with the top 6 to 8 feet of "Urban" fill material. No visual or olfactory evidence of petroleum contamination was identified in any of the soil samples.

At each soil boring location, two soil samples were collected and analyzed for VOCs using US Environmental Protection Agency (EPA) Method 8260, for SVOCs using EPA Method 8270BN, for Pesticides and PCBs using EPA Method 8081/8082, and for TAL Metals.

Data collected during the RI was determined to be sufficient to delineate the distribution of contaminants in soil at the Site. The Phase II report prepared by EEA is provided in Appendix I.

### **Soil Results**

Laboratory analytical results from the soil samples were compared to the Unrestricted Use SCO/Track 1 and Restricted-Residential Use SCO/Track 2 as specified in the NYSDEC's 375-6 Remedial Program Soil Cleanup Objectives. Table 1 presents those compounds and analytes that exceed the Unrestricted Use/Track 1 SCO or the Residential Restricted Use/Track 2 SCO. The complete laboratory data tables are included in the Phase II report presented in Appendix I.

Soil/fill samples collected during the Phase II indicated that no samples exceed Track I Unrestricted SCOs for VOCs and polychlorinated biphenyls (PCBs). Five SVOCs exceeded Track II Residential Use SCOs in shallow soil samples (0-2').

#### SVOCs

- All SVOC's exceedances were for PAH compounds. There were no exceedences of Track I Unrestricted SCOs for SVOCs in the deeper soil samples (from 10-12'). Ranges in SVOC exceedences detected in the soil samples include the following PAHs: benzo(a)anthracene (1.4 milligram per kilogram [mg/kg] to 7.3 mg/kg), benzo(a)pyrene (2.2 mg/kg to 12 mg/kg), benzo(b)fluoranthene (2.7 mg/kg to 16 mg/kg), benzo(k)fluoranthene (2.6 mg/kg to 15 mg/kg), and chrysene (2 mg/kg to 8.4 mg/kg).

#### Pesticides

- 4,4'-DDD(p,p'), 4,4'-DDE(p,p') and 4,4'-DDT(p,p') were detected at concentrations exceeded Track I Unrestricted Use SCOs but were all under Restricted Use Residential SCOs in soil samples from all the borings with the exception of Boring 3.
- Chlordane was detected at concentrations exceeding the Unrestricted Use/Track 2 SCO in soil samples from all the borings with the exception of Boring 2 and 3.

#### Metals (TAL)

- Lead (maximum of 1,150mg/kg), barium (maximum 2,620mg/kg), cadmium (maximum of 8.85mg/kg) in shallow and deep samples exceeded Track I Unrestricted Use SCOs and Track II Residential Use SCOs. Chromium and nickel exceeded Track I SCOs for metals but were under Track II SCOs for Residential Use. Overall, findings for soil were unremarkable and did not show a source of contamination on this property. Low levels of contamination are consistent with findings of historic fill on the property.

## **4.2 GROUNDWATER**

Tables 2 present a summary of the groundwater sampling results and a comparison to NYSDEC TOGS 1.1.1 GQS. The complete laboratory data tables are included in the Phase II report presented in Appendix I. The locations of the groundwater samples are shown on Figure 3.

Groundwater was encountered at approximately 10 feet below surface grade in all the soil borings. Groundwater samples with sampling designations B-3W, B-5W, and B-8W were obtained from soil boring locations B-3, B-5 and B-8, respectively, using a temporary screen with the Geoprobe drill rig. One groundwater sample was obtained from each of the borings utilizing an inertial pump consisting of a stainless steel check valve and ball. The inertial pump was fitted with dedicated polyethylene tubing, which allowed the groundwater to be brought up to the ground surface for collection. Each groundwater sample was placed into two (2) pre-cleaned 40- milliliter vials, two (2) one-liter amber, and two (2) plastic jars for metal analysis. These samples were submitted to the State-certified laboratory for analysis. The groundwater samples were collected and analyzed for VOCs using EPA Method 8260, SVOCs using EPA Method 8270BN, Pesticides and PCBs using EPA Method 8081/8082 and TAL Metals (Filtered and Unfiltered).

### **Groundwater Results**

There were no field observations of potential groundwater contamination in the groundwater collected from B-3W, B-5W, and B-8W. Groundwater samples collected during the RI showed no VOCs, SVOCs, or PCBs at concentration exceeding the above 6NYCRR Part 703.5 Class GA Groundwater Quality Standards (GQS). Two (2) Pesticides were detected in a groundwater sample at concentrations slightly exceeding 6NYCRR Part 703.5 Class GA Groundwater Quality Standards (GQS). They include chlordane and 4,4'-DDT which were both detected at maximum concentrations below 1ppb. All other Pesticides in groundwater were below GQS. Several metals were detected in groundwater samples at concentrations exceeding their respective GQS. Dissolved metals did not exceed GQS for any sample except sodium. Findings suggest a possible offsite source such as road salting. Overall, groundwater did not show any contaminant sources on the property and were consistent with findings for soil.

### 4.3 SOIL VAPOR

A soil vapor investigation was completed at the site. The vapor intrusion survey was performed in accordance with guidelines provided in the New York State Department of Health's (NYSDOH's) vapor intrusion guidance document. The survey included the collection of three (3) soil vapor samples from soil vapor probes installed at the locations shown on Figure 3. All samples were collected over a 3-hour time period using 6-liter canisters.

Soil vapor samples were collected from three (3) vapor probes installed using a Geoprobe drill rig. Two (2) probe points were installed to a depth of nine (9) feet below grade, which corresponds to approximately one (1) foot above the groundwater table, and one (1) was installed to a depth of four (4) feet below grade to evaluate shallower sediments. Samples SV-1 and SV-3 were collected at nine (9) feet below grade, while sample SV-2 was collected at approximately four (4) feet below grade. Samples were collected using 6-liter batch-certified Summa canisters, each equipped with a vacuum gauge and flow regulator set to collect a 6-liter sample over a 3-hour sampling period, which corresponds to a flow rate of approximately 25 milliliters per minute.

Prior to sample collection, the sampling points were purged of three (3) volumes using a peristaltic pump. Following purging, a soil vapor sample was collected using the vacuum from the Summa canister. The samples were analyzed by a NYSDOH-certified lab for VOCs using EPA Method TO-15.

### SOIL VAPOR RESULTS

Soil vapor sampling locations are shown on Figure 3. Soil vapor sample collection data are reported in Table 3. Soil vapor sampling logs are provided in Appendix II along with the Chain of Custody. NYSDOH guidance information for evaluating soil vapor matrices is presented in Table 4.

Soil vapor samples were designated SV-1, SV-2 and SV-3. Soil vapor samples collected during the RI showed VOCs in soil vapor with highest concentrations for tetrachloroethene (PCE) at elevated concentrations at all three (3) sample locations ranging from 54-100ug/m<sup>3</sup>. Benzene was detected at low concentrations ranging from 32 ug/m<sup>3</sup> to 51 ug/m<sup>3</sup>. PCE was not observed in the groundwater samples and findings suggest an offsite source area.

#### 4.4 CHEMICAL ANALYSES

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Isabel Su/Environment Scientist.
Chemical Analytical Laboratory	Soil and groundwater chemical analyses were performed by York Analytical Laboratories, Inc. (NYSDOH Certification No. 10854), and soil vapor chemical analyses were performed by Integrated Analytical Laboratories, LLC (NYS ELAP certified).
Chemical Analytical Methods	<p>Soil analytical methods:</p> <ul style="list-style-type: none"> <li>• TAL Metals by EPA Method 6010C (rev. 2007)</li> <li>• VOCs by EPA Method 8260 (rev. 2006)</li> <li>• SVOCs by EPA Method 8270BN (rev. 2007)</li> <li>• Pesticides by EPA Method 8081 (rev. 2000)</li> <li>• PCBs by EPA Method 8082 (rev. 2000)</li> </ul> <p>Groundwater analytical methods:</p> <ul style="list-style-type: none"> <li>• TAL Metals by EPA Method 6010C (rev. 2007)</li> <li>• VOCs by EPA Method 8260 (rev. 2006)</li> <li>• SVOCs by EPA Method 8270BN (rev. 2007)</li> <li>• Pesticides by EPA Method 8081 (rev. 2000)</li> <li>• PCBs by EPA Method 8082 (rev. 2000)</li> </ul> <p>Soil vapor analytical methods</p> <ul style="list-style-type: none"> <li>• VOCs by TO-15 VOC parameters</li> </ul>

## **5.0 CONCLUSIONS**

Brinkerhoff performed a Remedial Investigation for the site identified as 1016 Washington Avenue, Bronx, New York. A previous Phase I ESA had identified no evidence of recognized environmental conditions in connection with the property, except the possible presence of one or more fuel oil tanks at the subject property and the presence of urban historic fill.

Based on the findings of the Phase II Environmental Subsurface Investigation, the chemical concentrations of SVOCs and metals in the soils and groundwater beneath the subject property indicate the presence of urban historic fill which is common and typical of industrial/commercial properties found throughout the metropolitan area. Many of the metals identified are also common minerals found in the local bedrock and natural soils.

The proposed remedial plan is presented in the Remedial Action Work Plan submitted as a separate document.

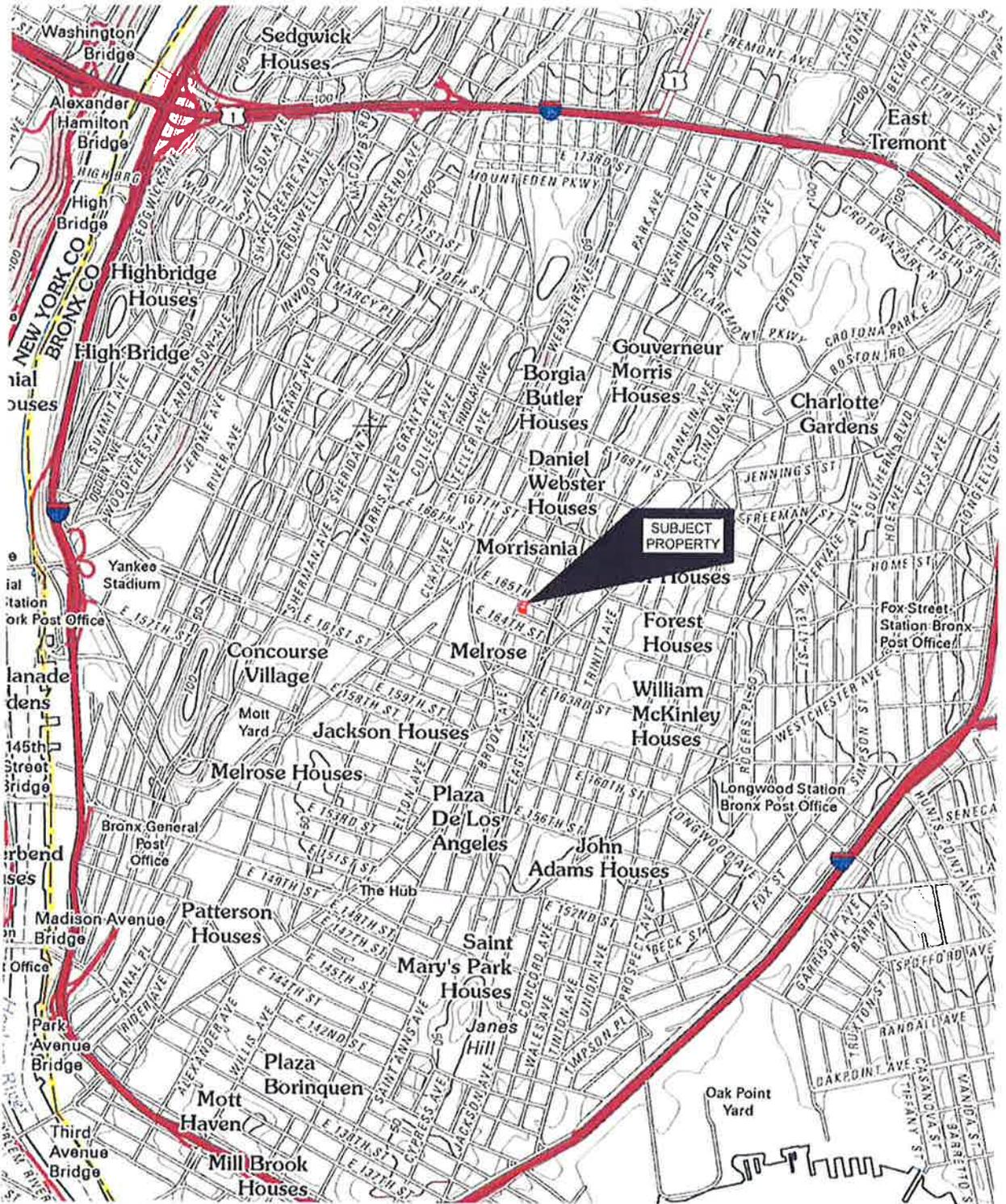
### **5.1 PRIOR ACTIVITY**

Based on an evaluation of the data and information from the RIR, disposal of significant quantities of hazardous waste is not suspected at this site.

### **5.2 IMPEDIMENTS TO REMEDIAL ACTION**

There are no known impediments to remedial action at this property.





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 PHOTO REVISED: 2011

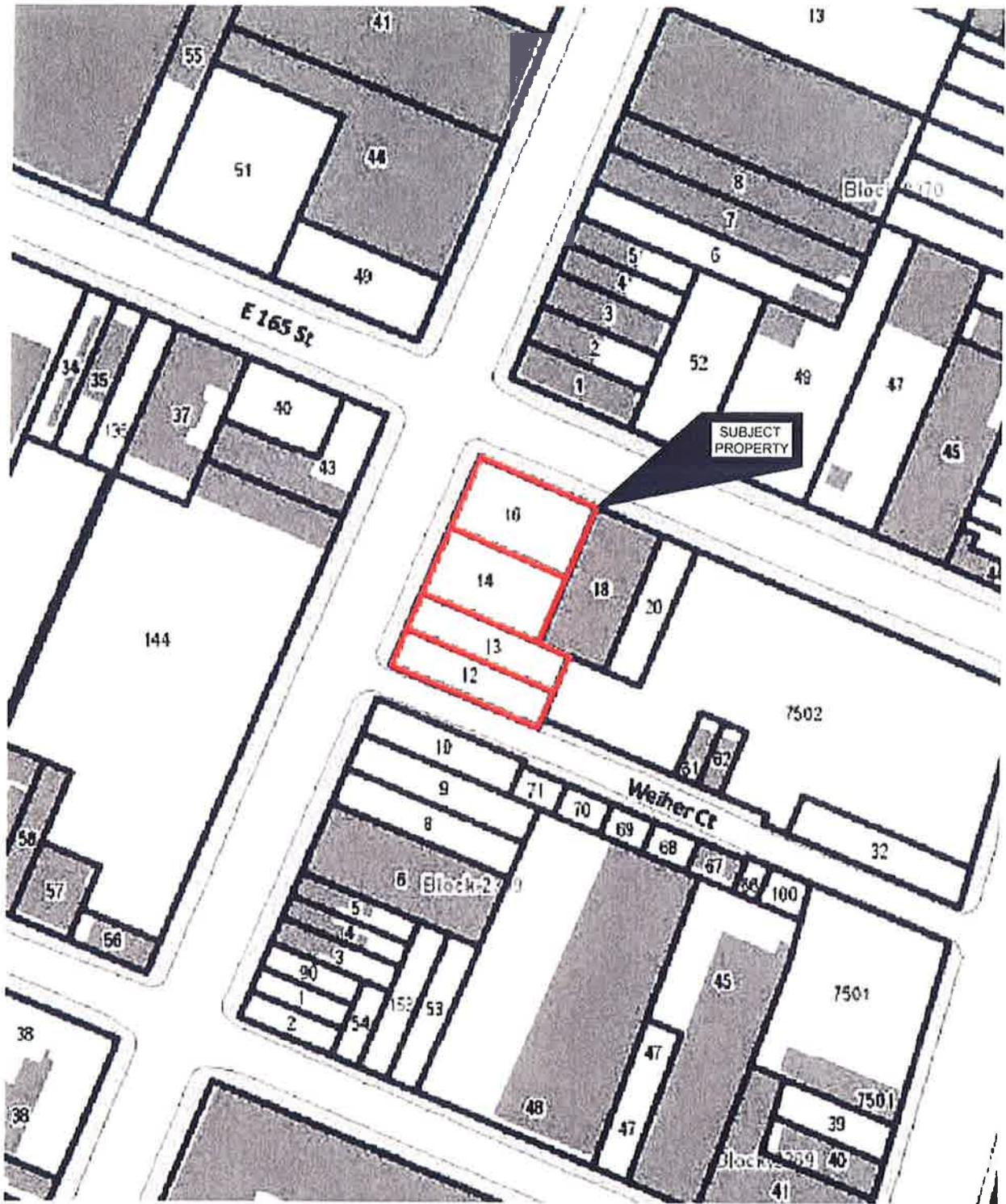
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# BRINKERHOFF

ENVIRONMENTAL SERVICES, INC.

FIGURE 1 - SITE LOCATION MAP  
 U.S.G.S. TOPOGRAPHIC CENTRAL PARK, NY QUAD  
 1016-1026 WASHINGTON AVENUE  
 BLOCK 2369, LOTS 12, 13, 14 & 16  
 BRONX, NEW YORK

DATE: 12/1/11	JOB NO.: 11BR205	SCALE: 1" = 2000'
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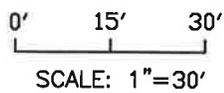


0' 50' 100'  
 SCALE: 1"=100'

**BRINKERHOFF**   
 ENVIRONMENTAL SERVICES, INC.

FIGURE 2 - TAX MAP  
 1016-1026 WASHINGTON AVENUE  
 BLOCK 2369, LOTS 12, 13, 14 & 16  
 BRONX, NEW YORK

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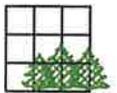


FIGURE 3  
 SAMPLE LOCATION MAP  
 1016-1026 WASHINGTON AVENUE  
 BLOCK 2369, LOTS 12, 13, 14 & 16  
 BRONX, NEW YORK

**LEGEND**

- - SOIL VAPOR SAMPLE LOCATION
- SV-1
- - EEA, INC. SOIL SAMPLE LOCATION
- B-1
- ⊕ - EEA, INC. SOIL AND GROUNDWATER SAMPLE LOCATION
- B-3/B-3W

DATE: 1/19/12

JOB NO.: 11BR205

SCALE: 1" = 30'



**Table 1**  
**Soil Sample Results Summary**  
**1016-1026 Washington Avenue, Bronx**

Sample ID	S-1	S-2	S-3	S-4	S-7	S-8	S-9	S-10	S-11	S-12	S-13	S-14	S-15	S-16	NYSDEC Unrestricted Use Soil Remediation Objectives	NYSDEC Residential-restricted Use Soil Remediation Objectives
	B-1		B-2		B-4		B-5		B-6		B-7		B-8			
Boring Number	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008		
Date	0-2	10-12	0-2	10-12	0-2	10-12	0-2	10-12	0-2	10-12	0-2	10-12	0-2	10-12		
Sample Depth (ft)	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		
Units	Semivolatile Organic Compounds															
Benzo(a)anthracene	7.3	ND	2.2	ND	0.48	ND	1.4	0.29	ND	ND	ND	0.22	ND	ND	1	1
Benzo(b)fluoranthene	16	ND	4.7	ND	0.72	ND	2.7	0.56	0.71	ND	0.25	0.46	ND	ND	1	1
Benzo(k)fluoranthene	15	ND	4.5	ND	0.71	ND	2.6	0.54	0.7	ND	0.21	ND	ND	ND	0.8	3.9
Benzo(a)pyrene	12	ND	3.9	ND	0.7	ND	2.2	0.53	0.67	ND	0.21	0.44	ND	ND	1	1
Chrysene	8.4	ND	2.1	ND	0.48	ND	2	0.4	0.49	ND	ND	0.33	ND	ND	1	3.9
<b>Pesticides</b>																
4,4'-DDD(p,p')	0.0852	ND	0.0781	ND	0.0199	0.0234	ND	0.0406	ND	ND	ND	ND	ND	ND	0.0033	13
4,4'-DDE(p,p')	0.137	ND	0.0397	0.0704	0.0638	0.062	0.0555	0.0314	0.0552	ND	ND	0.0233	ND	ND	0.0033	8.9
4,4'-DDT(p,p')	0.413	ND	0.227	0.0947	0.091	0.225	0.523	0.376	0.364	ND	0.022	0.195	0.0691	ND	0.0033	7.9
Chlordane, Total	0.336	ND	0.0496	0.0662	0.057	0.0852	0.46	0.571	0.146	ND	0.15	0.267	0.0348	ND	0.094	4.2
<b>Metals</b>																
Barium	1970	59	1050	279	387	580	2620	99	2000	87	810	1050	522	62	350	400
Cadmium	1.02	ND	0.66	0.71	8.85	4.21	1.23	ND	1.06	0.5	0.6	0.83	0.61	ND	2.5	4.3
Chromium	17.5	21.5	10.7	12.7	47.7	24.1	34.1	24.2	12.5	30.6	14.6	19.8	21.1	19.6	31	290
Lead	1150	7.99	369	142	332	351	251	8.13	415	7.75	184	341	198	5.72	63	400
Nickel	9.96	18.9	7.73	11.4	53.5	25.8	22.2	20.5	7.37	23.9	10.2	12.8	11.6	16.9	30	310
Zinc	835	54	586	247	450	441	1160	61	859	66	440	507	296	45	109	10000

ND - Not Detected

- Result exceeds the NYSDEC Track 1 Unrestricted Use Soil Remediation Objectives

- Result exceeds the Track 2 NYSDEC Residential Restricted Use Soil Remediation Objectives

**Table 2  
Groundwater Sample Results Summary  
1016-1026 Washington Avenue, Bronx**

Sample ID	S-17	S-18	S-19	NYSDEC TOGS 1.1.1 Groundwater Quality Standard			
Boring Number	B-3W	B-5W	B-8W				
Date	5/21/2008	5/21/2008	5/21/2008				
Units	ug/L	ug/L	ug/L				
<b>Pesticides</b>							
Chlordane	<0.14	<b>0.373</b>	<0.33	<b>0.05</b>			
Chrysene	<0.0672	<b>0.264</b>	<0.158	<b>0.2</b>			
<b>Metals</b>							
Sample ID	S-17 Unfiltered	S-17 Filtered	S-18 Unfiltered	S-18 Filtered	S-19 Unfiltered	S-19 Filtered	
Antimony	<5	<5	<b>18.6</b>	<5	<b>12.6</b>	<5	<b>3</b>
Barium	918	25.5	<b>1440</b>	31.7	772	29.4	<b>1000</b>
Beryllium	<b>3.1</b>	<1	<1	<1	<1	<1	<b>3</b>
Cadmium	3.7	<3	<b>24</b>	<3	<b>3.5</b>	<3	<b>5</b>
Chromium	<b>113</b>	<5	<b>153</b>	14	<b>96.7</b>	<5	<b>50</b>
Copper	<b>235</b>	6	122	11.1	83.4	5.9	<b>200</b>
Lead	<b>737</b>	<3	<b>7050</b>	10.5	<b>74.1</b>	<3	<b>25</b>
Magnesium	<b>42700</b>	12700	17700	6770	<b>98200</b>	17400	<b>35000</b>
Manganese	<b>9100</b>	12.1	<b>1430</b>	<5	<b>8390</b>	242	<b>300</b>
Nickel	<b>160</b>	<5	67.2	7	<b>116</b>	10.1	<b>100</b>
Selenium	<10	<10	<b>30</b>	<10	<b>15</b>	<10	<b>10</b>
Sodium	<b>25700</b>	<b>23500</b>	13000	6010	8320	8160	<b>20000</b>
Zinc	943	<20	<b>11700</b>	24	267	<20	<b>5000</b>
Iron	<b>30300</b>	<5	<b>19800</b>	20.2	<b>20000</b>	<5	<b>300</b>

ND - Not Detected

**BOLD** - Result exceeds the NYSDEC TOGS 1.1.1 Groundwater Quality Standard

**TABLE 3**  
**Integrated Analytical Laboratories LLC**

**Summary of Results**

Brinkerhoff Environmental Services  
1913 Atlantic Avenue  
Manasquan, NJ 08736  
Attn: Doug Harm  
Project: 1016 Washington Ave  
Site: NA

Report Date: 11/29/11  
Job Number: E11-11354  
Date Received: 11/14/11  
Date Analyzed: 11/21/11  
Data File: AF3580  
Summa ID: 2095

Analysis: Volatile Organic Compounds by EPA Method TO-15

<u>Compound</u>	<u>CAS #</u>	<u>IAL ID:</u>	<u>SV-1</u>		<u>Reporting Limits</u>		
			<u>E11-11354-01</u>		<u>ppbv</u>	<u>ug/m3</u>	
			<u>ppbv</u>	<u>ug/m3</u>		<u>ppbv</u>	<u>ug/m3</u>
Benzene	71-43-2	D	9.9	32		2.0	6.4
Benzyl chloride	100-44-7		ND	ND		2.0	10
Bromodichloromethane	75-27-4		ND	ND		2.0	13
Bromoform	75-25-2		ND	ND		2.0	21
Bromomethane	74-83-9		ND	ND		2.0	7.8
Chlorobenzene	108-90-7		ND	ND		2.0	9.2
Chloroethane	75-00-3		ND	ND		2.0	5.3
Chloroform	67-66-3		ND	ND		2.0	9.8
Chloromethane	74-87-3		ND	ND		2.0	4.1
Carbon tetrachloride	56-23-5		ND	ND		0.40	2.5
Cyclohexane	110-82-7	D	3.3	11		2.0	6.9
Dibromochloromethane	124-48-1		ND	ND		2.0	17
1,2-Dibromoethane	106-93-4		ND	ND		2.0	15
1,2-Dichlorobenzene	95-50-1		ND	ND		2.0	12
1,3-Dichlorobenzene	541-73-1		ND	ND		2.0	12
1,4-Dichlorobenzene	106-46-7		ND	ND		2.0	12
Dichlorodifluoromethane	75-71-8		ND	ND		2.0	9.9
1,1-Dichloroethane	75-34-3		ND	ND		2.0	8.1
1,2-Dichloroethane	107-06-2		ND	ND		2.0	8.1
1,1-Dichloroethene	75-35-4		ND	ND		2.0	7.9
1,2-Dichloroethene (cis)	156-59-2		ND	ND		2.0	7.9
1,2-Dichloroethene (trans)	156-60-5		ND	ND		2.0	7.9
1,2-Dichloropropane	78-87-5		ND	ND		2.0	9.2
1,3-Dichloropropene (cis)	10061-01-5		ND	ND		2.0	9.1
1,3-Dichloropropene (trans)	10061-02-6		ND	ND		2.0	9.1
1,2-Dichlorotetrafluoroethane	76-14-2		ND	ND		2.0	14
1,4-Dioxane	123-91-1		ND	ND		2.0	7.2
Ethanol	64-17-5	D	4.3	8.1		2.0	3.8
Ethylbenzene	100-41-4	D	13	58		2.0	8.7
1,3-Hexachlorobutadiene	87-68-3		ND	ND		2.0	21
n-Hexane	110-54-3	D	27	97		2.0	7.1
Methylene chloride	75-09-2		ND	ND		2.0	7.0
Methyl ethyl ketone	78-93-3	D	8.3	25		2.0	5.9
Methyl isobutyl ketone	108-10-1		ND	ND		2.0	8.2
Methyl tert-butyl ether	1634-04-4		ND	ND		2.0	7.2
Styrene	100-42-5		ND	ND		2.0	8.5
Tert-butyl alcohol	75-65-0		ND	ND		2.0	6.1
1,1,2,2-Tetrachloroethane	79-34-5		ND	ND		2.0	14
Tetrachloroethene	127-18-4	D	8.0	54		2.0	14
Toluene	108-88-3	D	79	299		2.0	7.5
1,2,4-Trichlorobenzene	120-82-1		ND	ND		2.0	15
1,1,1-Trichloroethane	71-55-6		ND	ND		2.0	11
1,1,2-Trichloroethane	79-00-5		ND	ND		2.0	11
Trichloroethene	79-01-6		ND	ND		0.46	2.5
Trichlorofluoromethane	75-69-4		ND	ND		2.0	11
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		ND	ND		2.0	15
1,2,4-Trimethylbenzene	95-63-6	D	2.5	12		2.0	9.8
1,3,5-Trimethylbenzene	108-67-8		ND	ND		2.0	9.8
2,2,4-Trimethylpentane	540-84-1	D	28	129		2.0	9.3
Vinyl chloride	75-01-4		ND	ND		2.0	5.1
Xylenes (m&p)	179601-23-1	D	51	222		2.0	8.7
Xylenes (o)	95-47-6	D	17	72		2.0	8.7

**TABLE 3**  
**Integrated Analytical Laboratories LLC**

**Summary of Results**

Brinkerhoff Environmental Services  
1913 Atlantic Avenue  
Manasquan, NJ 08736  
Attn: Doug Harm  
Project: 1016 Washington Ave  
Site: NA

Report Date: 11/29/11  
Job Number: E11-11354  
Date Received: 11/14/11  
Date Analyzed: 11/21/11  
Data File: AF3581  
Summa ID: 3007

Analysis: Volatile Organic Compounds by EPA Method TO-15

<u>Compound</u>	<u>CAS #</u>	<u>IAL ID:</u>	<u>SV-2</u>		<u>Reporting Limits</u>		
			<u>E11-11354-02</u>		<u>ppbv</u>	<u>ug/m3</u>	
			<u>ppbv</u>	<u>ug/m3</u>		<u>ppbv</u>	<u>ug/m3</u>
Benzene	71-43-2	D	15	48		2.0	6.4
Benzyl chloride	100-44-7		ND	ND		2.0	10
Bromodichloromethane	75-27-4		ND	ND		2.0	13
Bromoform	75-25-2		ND	ND		2.0	21
Bromomethane	74-83-9		ND	ND		2.0	7.8
Chlorobenzene	108-90-7		ND	ND		2.0	9.2
Chloroethane	75-00-3		ND	ND		2.0	5.3
Chloroform	67-66-3		ND	ND		2.0	9.8
Chloromethane	74-87-3		ND	ND		2.0	4.1
Carbon tetrachloride	56-23-5		ND	ND		0.40	2.5
Cyclohexane	110-82-7	D	4.4	15		2.0	6.9
Dibromochloromethane	124-48-1		ND	ND		2.0	17
1,2-Dibromoethane	106-93-4		ND	ND		2.0	15
1,2-Dichlorobenzene	95-50-1		ND	ND		2.0	12
1,3-Dichlorobenzene	541-73-1		ND	ND		2.0	12
1,4-Dichlorobenzene	106-46-7		ND	ND		2.0	12
Dichlorodifluoromethane	75-71-8		ND	ND		2.0	9.9
1,1-Dichloroethane	75-34-3		ND	ND		2.0	8.1
1,2-Dichloroethane	107-06-2		ND	ND		2.0	8.1
1,1-Dichloroethene	75-35-4		ND	ND		2.0	7.9
1,2-Dichloroethene (cis)	156-59-2		ND	ND		2.0	7.9
1,2-Dichloroethene (trans)	156-60-5		ND	ND		2.0	7.9
1,2-Dichloropropane	78-87-5		ND	ND		2.0	9.2
1,3-Dichloropropene (cis)	10061-01-5		ND	ND		2.0	9.1
1,3-Dichloropropene (trans)	10061-02-6		ND	ND		2.0	9.1
1,2-Dichlorotetrafluoroethane	76-14-2		ND	ND		2.0	14
1,4-Dioxane	123-91-1		ND	ND		2.0	7.2
Ethanol	64-17-5		ND	ND		2.0	3.8
Ethylbenzene	100-41-4	D	28	121		2.0	8.7
1,3-Hexachlorobutadiene	87-68-3		ND	ND		2.0	21
n-Hexane	110-54-3	D	40	141		2.0	7.1
Methylene chloride	75-09-2		ND	ND		2.0	7.0
Methyl ethyl ketone	78-93-3	D	13	38		2.0	5.9
Methyl isobutyl ketone	108-10-1		ND	ND		2.0	8.2
Methyl tert-butyl ether	1634-04-4		ND	ND		2.0	7.2
Styrene	100-42-5		ND	ND		2.0	8.5
Tert-butyl alcohol	75-65-0	D	2.9	8.8		2.0	6.1
1,1,2,2-Tetrachloroethane	79-34-5		ND	ND		2.0	14
Tetrachloroethene	127-18-4	D	15	100		2.0	14
Toluene	108-88-3	D	140	526		2.0	7.5
1,2,4-Trichlorobenzene	120-82-1		ND	ND		2.0	15
1,1,1-Trichloroethane	71-55-6		ND	ND		2.0	11
1,1,2-Trichloroethane	79-00-5		ND	ND		2.0	11
Trichloroethene	79-01-6		ND	ND		0.46	2.5
Trichlorofluoromethane	75-69-4		ND	ND		2.0	11
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		ND	ND		2.0	15
1,2,4-Trimethylbenzene	95-63-6	D	8.1	40		2.0	9.8
1,3,5-Trimethylbenzene	108-67-8	D	4.0	20		2.0	9.8
2,2,4-Trimethylpentane	540-84-1	D	22	103		2.0	9.3
Vinyl chloride	75-01-4		ND	ND		2.0	5.1
Xylenes (m&p)	179601-23-1	D	101	438		2.0	8.7
Xylenes (o)	95-47-6	D	33	145		2.0	8.7

**TABLE 3**  
**Integrated Analytical Laboratories LLC**

**Summary of Results**

Brinkerhoff Environmental Services  
1913 Atlantic Avenue  
Manasquan, NJ 08736  
Attn: Doug Harm  
Project: 1016 Washington Ave  
Site: NA

Report Date: 11/29/11  
Job Number: E11-11354  
Date Received: 11/14/11  
Date Analyzed: 11/21/11  
Data File: AF3582  
Summa ID: 3815

Analysis: Volatile Organic Compounds by EPA Method TO-15

<u>Compound</u>	<u>CAS #</u>	<u>Sample Name:</u> <u>IAL ID:</u>	<u>SV-3</u> <u>E11-11354-03</u>		<u>Reporting</u> <u>Limits</u>	
			<u>ppbv</u>	<u>ug/m3</u>	<u>ppbv</u>	<u>ug/m3</u>
Benzene	71-43-2	D	16	51	2.0	6.4
Benzyl chloride	100-44-7		ND	ND	2.0	10
Bromodichloromethane	75-27-4		ND	ND	2.0	13
Bromoform	75-25-2		ND	ND	2.0	21
Bromomethane	74-83-9		ND	ND	2.0	7.8
Chlorobenzene	108-90-7		ND	ND	2.0	9.2
Chloroethane	75-00-3		ND	ND	2.0	5.3
Chloroform	67-66-3	D	2.4	12	2.0	9.8
Chloromethane	74-87-3		ND	ND	2.0	4.1
Carbon tetrachloride	56-23-5		ND	ND	0.40	2.5
Cyclohexane	110-82-7	D	6.0	21	2.0	6.9
Dibromochloromethane	124-48-1		ND	ND	2.0	17
1,2-Dibromoethane	106-93-4		ND	ND	2.0	15
1,2-Dichlorobenzene	95-50-1		ND	ND	2.0	12
1,3-Dichlorobenzene	541-73-1		ND	ND	2.0	12
1,4-Dichlorobenzene	106-46-7		ND	ND	2.0	12
Dichlorodifluoromethane	75-71-8		ND	ND	2.0	9.9
1,1-Dichloroethane	75-34-3		ND	ND	2.0	8.1
1,2-Dichloroethane	107-06-2		ND	ND	2.0	8.1
1,1-Dichloroethene	75-35-4		ND	ND	2.0	7.9
1,2-Dichloroethene (cis)	156-59-2		ND	ND	2.0	7.9
1,2-Dichloroethene (trans)	156-60-5		ND	ND	2.0	7.9
1,2-Dichloropropane	78-87-5		ND	ND	2.0	9.2
1,3-Dichloropropene (cis)	10061-01-5		ND	ND	2.0	9.1
1,3-Dichloropropene (trans)	10061-02-6		ND	ND	2.0	9.1
1,2-Dichlorotetrafluoroethane	76-14-2		ND	ND	2.0	14
1,4-Dioxane	123-91-1		ND	ND	2.0	7.2
Ethanol	64-17-5	D	49	92	2.0	3.8
Ethylbenzene	100-41-4	D	8.9	39	2.0	8.7
1,3-Hexachlorobutadiene	87-68-3		ND	ND	2.0	21
n-Hexane	110-54-3	D	50	177	2.0	7.1
Methylene chloride	75-09-2	D	2.5	8.7	2.0	7.0
Methyl ethyl ketone	78-93-3	D	13	37	2.0	5.9
Methyl isobutyl ketone	108-10-1		ND	ND	2.0	8.2
Methyl tert-butyl ether	1634-04-4		ND	ND	2.0	7.2
Styrene	100-42-5		ND	ND	2.0	8.5
Tert-butyl alcohol	75-65-0	D	4.2	13	2.0	6.1
1,1,2,2-Tetrachloroethane	79-34-5		ND	ND	2.0	14
Tetrachloroethene	127-18-4	D	9.4	64	2.0	14
Toluene	108-88-3	D	96	361	2.0	7.5
1,2,4-Trichlorobenzene	120-82-1		ND	ND	2.0	15
1,1,1-Trichloroethane	71-55-6		ND	ND	2.0	11
1,1,2-Trichloroethane	79-00-5		ND	ND	2.0	11
Trichloroethene	79-01-6		ND	ND	0.46	2.5
Trichlorofluoromethane	75-69-4		ND	ND	2.0	11
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		ND	ND	2.0	15
1,2,4-Trimethylbenzene	95-63-6		ND	ND	2.0	9.8
1,3,5-Trimethylbenzene	108-67-8		ND	ND	2.0	9.8
2,2,4-Trimethylpentane	540-84-1	D	28	133	2.0	9.3
Vinyl chloride	75-01-4		ND	ND	2.0	5.1
Xylenes (m&p)	179601-23-1	D	28	123	2.0	8.7
Xylenes (o)	95-47-6	D	8.2	36	2.0	8.7

**TABLE 4**  
**New York State Department of Environmental Conservation Conservation Decision Matrices**  
**from Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006**

Decision matrices are risk management tools, developed by the NYSDOH in conjunction with other agencies, to provide guidance on a case-by-case basis about actions that should be taken to address current and potential exposures related to soil vapor intrusion. The matrices are intended to be used when evaluating the results from buildings with full slab foundations.

The NYSDOH has developed two matrices to use as tools in making decisions when soil vapor may be entering buildings. The first decision matrix was originally developed for TCE and the second for PCE. As summarized in the table below (Table 3.3 in the NYSDEC VIG), four chemicals have been assigned to the two matrices to date.

*Volatile chemicals and their decision matrices*

<b>Chemical</b>	<b>Soil Vapor/Indoor Air Matrix</b>
Carbon tetrachloride	Matrix 1
Trichloroethene (TCE)	Matrix 1
Vinyl chloride	Matrix 1
<b>Chemical</b>	<b>Soil Vapor/Indoor Air Matrix</b>
1,1-Dichloroethene	Matrix 2
cis-1,2-Dichloroethene	Matrix 2
Tetrachloroethene (PCE)	Matrix 2
1,1,1-Trichloroethane (1,1,1-TCA)	Matrix 2

**Soil Vapor/Indoor Air Matrix 1**

<b>SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m<sup>3</sup>)</b>	<b>INDOOR AIR CONCENTRATION of COMPOUND (µg/m<sup>3</sup>)</b>		
	<b>&lt; 0.25</b>	<b>0.25 to &lt; 1</b>	<b>1 to &lt; 5.0</b>
<b>&lt; 5</b>	1. No further action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures
<b>5 to &lt; 50</b>	5. No further action	6. MONITOR	7. MONITOR
<b>50 to &lt; 250</b>	9. MONITOR	10. MONITOR / MITIGATE	11. MITIGATE
<b>250 and above</b>	13. MITIGATE	14. MITIGATE	15. MITIGATE
			4. Take reasonable and practical actions to identify source(s) and reduce exposures
			8. MITIGATE
			12. MITIGATE
			16. MITIGATE
			5.0 and above

**New York State Department of Environmental Conservation Decision Matrices  
from Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006**

**Soil Vapor/Indoor Air Matrix 2**

		INDOOR AIR CONCENTRATION of COMPOUND (µg/m <sup>3</sup> )		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (µg/m <sup>3</sup> )	< 3	3 to < 30	30 to < 100	100 and above
< 100	1. No further action	2. Take reasonable and practical actions to identify source(s) and reduce exposures	3. Take reasonable and practical actions to identify source(s) and reduce exposures	4. Take reasonable and practical actions to identify source(s) and reduce exposures
100 to < 1,000	5. MONITOR	6. MONITOR / MITIGATE	7. MITIGATE	8. MITIGATE
1,000 and above	9. MITIGATE	10. MITIGATE	11. MITIGATE	12. MITIGATE

**Guide to Matrices 1 and 2**

**No further action:**

Given that the compound was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

**Take reasonable and practical actions to identify source(s) and reduce exposures:**

The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers tightly capped or by storing volatile organic compound-containing products in places where people do not spend much time, such as a garage or outdoor shed). Resampling may be recommended to demonstrate the effectiveness of actions taken to reduce exposures.

**MONITOR:**

Monitoring, including sub-slab vapor, basement air, lowest occupied living space air, and outdoor air sampling, is needed to determine whether concentrations in the indoor air or sub-slab vapor have changed. Monitoring may also be needed to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined on a site-specific and building-specific basis, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

**MITIGATE:**

Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system, and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

**MONITOR / MITIGATE:**

Monitoring or mitigation may be recommended after considering the magnitude of sub-slab vapor and indoor air concentrations along with building- and site specific conditions.



**PHASE II ENVIRONMENTAL  
SUBSURFACE INVESTIGATION**

**PROPERTY LOCATED AT  
1016-1026 WASHINGTON AVENUE  
BRONX, NEW YORK  
BLOCK 2369, LOTS 12, 13, 14 & 16**

Prepared for:

JACKSON DEVELOPMENT GROUP LIMITED  
242-01 BRADDOCK AVENUE  
BELLEROSE, NEW YORK 11426

Prepared by:

**Hardik Parekh**

---

Hardik Parekh  
Environmental Engineer

Reviewed by:

**Nicholas J. Recchia**

---

Nicholas Recchia, C.P.G.  
Senior Hydrogeologist, V.P.

***EEA Inc.***

*55 Hilton Avenue  
Garden City, New York 11530  
[www.eeaconsultants.com](http://www.eeaconsultants.com)  
(516) 746-4400  
(212) 227-3200  
June 26, 2008*

***EEA Job# 08718***

**PHASE II ENVIRONMENTAL SUBSURFACE INVESTIGATION  
PROPERTY LOCATED AT  
1016 – 1026 WASHINGTON AVENUE  
BLOCK 2369, LOTS 12, 13, 14, & 16  
BRONX, NEW YORK**

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**PHASE II ENVIRONMENTAL SUBSURFACE INVESTIGATION  
PROPERTY LOCATED AT  
1016 – 1026 WASHINGTON AVENUE  
BLOCK 2369, LOTS 12, 13, 14, & 16  
BRONX, NEW YORK**

---

**Executive Summary**

EEA, Inc. performed a Phase II Environmental Subsurface Investigation at the property located at 1016 – 1026 Washington Avenue in Bronx, New York. Information regarding the site conditions was obtained from a Phase I Environmental Site Assessment (ESA) conducted by Environmental Project Data Statements Company (EPDSCO) dated September 2007. The Phase I ESA revealed Recognized Environmental Conditions (RECs) [adjacent land use by gasoline stations with reported NYSDEC Spill files] which warrant further exploratory investigation. As a result, Phase I ESA recommended performing a Phase II Subsurface Investigation to identify the subsurface soil and groundwater quality at the subject property.

The subject property currently consists of four (4) unimproved vacant lots, totaling approximately 13,371 square feet, located on the east side of Washington Avenue between Weiher Court and East 165<sup>th</sup> Street. The location of the subject property is shown on **Figure 1**. All subsurface investigation work was performed in accordance with the New York City Department of Environmental Protection (NYCDEP) approved EEA's Investigation Work Plan (IWP) and Health and Safety Plan (HASP) in letter dated December 17, 2007 (see **Appendix E**).

**Soil Quality Conditions**

A total of eight (8) soil borings with sampling designation B-1 through B-8 were conducted on-site. Two (2) soil borings were advanced on each property lot. Two soil samples from each soil borings were collected and submitted for laboratory analysis. A total of sixteen (16) soil samples were collected as part of this investigation. The soil sample collection locations are presented in **Figure 1**. The laboratory soil analytical results are summarized and presented on **Tables 1, 2, 3, and 4**.

Field inspection, observation and testing did not identify the presence of significant contamination in soils on the subject property. Visual evidence did not identify petroleum contamination in any of the soil samples. The laboratory analytical results did not detect any VOCs and PCBs in any of the soil samples at concentrations exceeding the New York State Department of Conservation (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) cleanup guidelines.

Poly Aromatic Hydrocarbons (PAH) compounds i.e., benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene; usually associated with "fill soils" containing asphalt were found at concentrations exceeding NYSDEC TAGM #4046 soil cleanup guidelines as well as the residential Brownfield Cleanup Objectives (SCO). This is expected since large amounts of broken asphalt pavement were found in the "fill

materials” of this site. Asphalt is a material which contains a high concentration of these PAH chemical compounds.

One (1) PCB i.e., chlordane (total) was detected in 10 to 12 foot soil sample obtained from boring B-5 at concentration exceeding NYSDEC TAGM soil cleanup guidelines.

Heavy metals such as Barium, Beryllium, Calcium, Chromium, Copper, Lead, Magnesium, Manganese, Mercury and Nickel were detected in the soil samples at concentrations exceeding their respective NYSDEC TAGM #4046 soil cleanup guidelines but below the residential Brownfield Cleanup Objectives (SCO) except for lead in 0 to 2 foot sample from soil boring B-1, chromium in 0 to 2 foot sample from soil boring B-4, cadmium in 0 to 2 and 10 to 12 foot soil samples from boring B-4, and barium in various soil samples; which were exceeding in both NYSDEC TAGM #4046 guidelines as well as residential Brownfield SCO. These metals are typical of “Urban Fill Soil” quality conditions.

#### Property Ground Water

There were no field observations of potential groundwater contamination in the groundwater collected from B-3W, B-5W, and B-8W. Laboratory analysis of groundwater samples did not detect any VOCs, SVOCs, and PCBs at concentration exceeding the NYSDEC Technical and Operational Guidance Series (TOGS) groundwater quality standards. Two (2) Pesticides i.e., chlordane and 4,4'-DDT were detected in groundwater sample B-5W, at concentrations exceeding NYSDEC TOGS 1.1.1 groundwater quality standards. The laboratory analytical results are summarized and presented on **Tables 5, 6, 7, and 8**.

Several TAL metals i.e., antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, magnesium, manganese, nickel, selenium, sodium, zinc, and iron were detected in groundwater samples at concentrations exceeding their respective NYSDEC TOGS 1.1.1 GQS. The groundwater was found to be within the “fill soils” of the property. The groundwater samples were collected at the soil/water interface and as such the fill soil sediments may have been retained in the groundwater sample yielding the metal concentrations. The groundwater on site is not considered an aquifer and is not used for drinking or any other water supply uses.

#### Conclusions and Recommendations

Based on the findings of this investigation the chemical concentrations of SVOCs and metals in the soils beneath the subject property indicate the presence of “Fill Soil” which is common and typical of industrial/commercial properties found throughout the metropolitan area.

The NYSDEC has developed the “guidelines” in order for DEC case managers to determine potential cleanup recommendations at various sites throughout the state. The NYSDEC considers each site on a case-by-case basis in consideration of the history and district of property usage and its location to sensitive human, wildlife and environmental interests. Industrial and commercial properties are treated differently than residential or environmentally sensitive areas.

No recommendations for additional investigation is being made for this property at this time. The concentrations of chemical parameters identified in the soil are typical of industrial/commercial “Urban Fill” properties in the New York metropolitan area. If these soils [0 to 10 feet below surface grade] are excavated and removed from the property as part of the redevelopment then these soils will have to be handled and disposed in accordance with NYSDEC solid waste (Part 360) guidelines. A Remedial Action Plan (RAP) and Construction Health and Safety Plan (CHASP) will have to be developed and approved by NYCDEP prior to any site excavation activities.

EEA recommends submitting this report to NYCDEP for their review and comments.

## **I. INTRODUCTION**

EEA, Inc. performed a Phase II Environmental Subsurface Investigation at properties located at 1016 – 1026 Washington Avenue in Bronx, New York. Information regarding the site conditions was obtained from a Phase I Environmental Site Assessment (ESA) conducted by Environmental Project Data Statements Company (EPDSCO) dated September 2007. The Phase I ESA revealed Recognized Environmental Conditions (RECs) [adjacent land use by gasoline stations with reported NYSDEC Spill files] which warrant further exploratory investigation. As a result, Phase I ESA recommended performing a Phase II Subsurface Investigation to identify the subsurface soil and groundwater quality at the subject property.

The subject property currently consists of four (4) unimproved vacant lots, totaling approximately 13,371 square feet, located on the east side of Washington Avenue between Weiher Court and East 165<sup>th</sup> Street. The location of the subject property is shown on **Figure 1**. All subsurface investigation work was performed in accordance with the New York City Department of Environmental Protection (NYCDEP) approved EEA's Investigation Work Plan (IWP) and Health and Safety Plan (HASP) in letter dated December 17, 2007 (see **Appendix E**).

EEA initiated field activities on May 21, 2008 and was completed by that date. This report summarizes the work performed, the results of the investigation, and any recommendations.

## **II. SCOPE OF WORK PERFORMED**

The soil borings were conducted using a Geoprobe LT 54 drill rig for all eight (8) borings. A total of eight (8) soil borings with sampling designation B-1 through B-8 were conducted on-site. A total of sixteen (16) soil samples were collected as part of this investigation. Two (2) soil borings were advanced on each Lot numbers. Two soil samples from each soil borings were collected and submitted for laboratory analysis. Samples were field screened for volatile organic vapors using an organic vapor meter (OVM). The soil sample collection locations are presented in **Figure 1**.

EEA collected one (1) 0 to 2 foot and one (1) 10 to 12 foot soil sample from all the soil borings. The samples were directed toward those areas likely to have accumulated the highest contaminant levels as observed during sampling. Groundwater was encountered at approximately 10 feet below surface grade in all the soil borings. Soils at the site consists of medium to fine brown sand and silt intermixed with medium to fine gravels and traces of cinder, asphalt and coal ash, with top 6 to 8 feet of "Urban" fill material. No visual or olfactory evidence of petroleum contamination was identified in any of the soil samples.

At each soil boring locations, two soil samples were collected and analyzed for VOCs using EPA Method 8260, SVOCs using EPA Method 8270BN, Pesticides and PCBs using EPA Method 8081/8082 and TAL Metals.

Groundwater samples with sampling designations B-3W, B-5W, and B-8W were obtained from soil boring locations B-3, B-5 and B-8, respectively using a temporary screen with

the Geoprobe drill rig. One groundwater sample was obtained from each borings B-3, B-5, and B-8 utilizing an inertial pump consisting of a stainless steel check valve and ball. The inertial pump was fitted with dedicated polyethylene tubing, which allowed the groundwater to be brought up to the ground surface for collection. Each groundwater sample was placed into two (2) pre-cleaned forty milliliter vials, two (2) one-liter amber and two (2) plastic jars for metal analysis. These samples were submitted to the State certified laboratory for analysis. The groundwater samples were collected and analyzed for VOCs using EPA Method 8260, SVOCs using EPA Method 8270BN, Pesticides and PCBs using EPA Method 8081/8082 and TAL Metals (Filtered and Unfiltered). The soil sample collection locations are presented in **Figure 1**.

a. Health and Safety Plan

EEA used NYCDEP approved site-specific Health and Safety Plan for performing this Phase II Environmental Subsurface Investigations. The HASP assigns responsibilities, establishes personal protection standards, recommends operating procedures, and provides for contingencies that may arise during performance of the assessment at the site. The protocols in the HASP apply to all personnel involved in the work activities including EEA, all outside subcontractors, client, or regulatory agencies present during the performance of the work. In addition, the following safety equipment is maintained on-site for responding to potential emergency situations: portable eyewash, ABC fire extinguisher, and first aid kit. Telephone numbers of emergency response units in the area are also posted where all those working at the site can easily see them. All personnel working at the site will also be required to receive training in respirator fitting, emergency procedures, equipment decontamination and specific task procedures. All personnel involved with the collection of soil or water will have successfully completed the 40-hour OSHA Hazardous Materials Training Program.

b. Subsurface Utility Location, Permits and Bonding

EEA notified the Dig Safely New York under the New York State Regulation Code 753 prior to initiating the work to identify the location of underground utilities in the vicinity of the proposed boring locations. Any permits for soil boring were obtained from the local agencies. In addition, any license and permit bonding required was secured for the work.

c. Investigation Work Summary

All soil boring was completed using a Geoprobe Model 54LT using the *Macrocore* soil sampling system. Samples were field screened for volatile organic vapors using an organic vapor meter (OVM). A total of eight (8) soil borings were advanced on-site within the areas of concern and submitted for laboratory analysis.

- Eight (8) soil borings (B-1 through B-8) were advanced on the subject property to investigate the subsurface soil quality at the subject property.
- Three (3) groundwater samples (B-3W, B-5W, and B-8W) were collected from the subject property to investigation the subsurface groundwater quality at the property.

### **III. RESULTS OF LABORATORY ANALYSES**

York Analytical Laboratories, Inc. (NYSDOH Certification No. 10854) prepared the results of the soil samples. **Tables 1 through 4** present a summary of the soil sampling results and a comparison to New York State Department of Environmental Conservation TAGM recommended soil cleanup guidelines (RSCOs) as well as 6 NYCRR Part 375-6.8(b) Brownfield residential soil cleanup objectives (SCOs). Tables 5 through 8 present a summary of the groundwater sampling results and a comparison to NYSDEC TOGS 1.1.1 Groundwater Quality Standards (GQS). The chain-of-custody records, as well as the analytical laboratory data sheets, are presented in the Appendix to this report.

### **IV. FINDINGS AND CONCLUSIONS**

#### Property Soil Quality

Field inspection, observation and testing did not identify the presence of significant contamination in soils on the subject property. Visual evidence did not identify petroleum contamination in any of the soil samples. The laboratory analytical results did not detect any VOCs and PCBs in any of the soil samples at concentrations exceeding the New York State Department of Conservation (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) cleanup guidelines.

Poly Aromatic Hydrocarbons (PAH) compounds i.e., benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene; usually associated with “fill soils” containing asphalt were found at concentrations exceeding NYSDEC TAGM #4046 soil cleanup guidelines as well as the residential Brownfield Cleanup Objectives (SCO). This is expected since large amounts of broken asphalt pavement were found in the “fill materials” of this site. Asphalt is a material which contains a high concentration of these PAH chemical compounds.

One (1) PCB i.e., chlordane (total) was detected in 10 to 12 foot soil sample obtained from boring B-5 at concentration exceeding NYSDEC TAGM soil cleanup guidelines.

Heavy metals such as Barium, Beryllium, Calcium, Chromium, Copper, Lead, Magnesium, Manganese, Mercury and Nickel were detected in the soil samples at concentrations exceeding their respective NYSDEC TAGM #4046 soil cleanup guidelines but below the residential Brownfield Cleanup Objectives (SCO) except for lead in 0 to 2 foot sample from soil boring B-1, chromium in 0 to 2 foot sample from soil boring B-4, cadmium in 0 to 2 and 10 to 12 foot soil samples from boring B-4, and barium in 0 to 2 foot sample from borings B-1, B-4, B-5, B-6, B-7, and B-8; and 10 to 12 foot sample from borings B-4 and B-7; which were exceeding in both NYSDEC TAGM #4046 guidelines as well as residential Brownfield SCO. These metals are typical of “Urban Fill Soil” quality conditions. *These metals are typical of “Urban Fill Soil” quality conditions.*

### Property Groundwater Quality

There were no field observations of potential groundwater contamination in the groundwater collected from B-3W, B-5W, and B-8W. Laboratory analysis of groundwater samples did not detect any VOCs, SVOCs, and PCBs at concentration exceeding the NYSDEC Technical and Operational Guidance Series (TOGS) groundwater quality standards. Two (2) Pesticides i.e., chlordane and 4,4'-DDT were detected in groundwater sample B-5W, at concentrations exceeding NYSDEC TOGS 1.1.1 groundwater quality standards. The laboratory analytical results are summarized and presented on **Tables 5, 6, 7, and 8**.

Several TAL metals i.e., antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, magnesium, manganese, nickel, selenium, sodium, zinc, and iron were detected in groundwater samples at concentrations exceeding their respective NYSDEC TOGS 1.1.1 GQS. The groundwater was found to be within the “fill soils” of the property. The groundwater samples were collected at the soil/water interface and as such the fill soil sediments may have been retained in the groundwater sample yielding the metal concentrations. The groundwater on site is not considered an aquifer and is not used for drinking or any other water supply uses.

### Conclusions

Based on the findings of this investigation the chemical concentrations of SVOCs and metals in the soils and groundwater beneath the subject property indicate the presence of “Urban Fill Soil” which is common and typical of industrial/commercial properties found throughout the metropolitan area. Many of the metals identified are also common minerals found in the local bedrock and natural soils. Based upon these results the NYSDEC would not require remedial action at this property.

The NYSDEC has developed the “guidelines” in order for DEC case managers to determine potential cleanup recommendations at various sites throughout the state. The NYSDEC considers each site on a case-by-case basis in consideration of the history and district of property usage and its location to sensitive human, wildlife and environmental interests. Industrial and commercial properties are treated differently than residential or environmentally sensitive areas.

## **V. RECOMMENDATIONS**

No recommendations for additional investigation is being made for this property at this time. The concentrations of chemical parameters identified in the soil are typical of industrial/commercial “Urban Fill” properties in the New York metropolitan area. If these soils [0 to 10 feet below surface grade] are excavated and removed from the property as part of the redevelopment then these soils will have to be handled and disposed in accordance with NYSDEC solid waste (Part 360) guidelines. A Remedial Action Plan (RAP) and Construction Health and Safety Plan (CHASP) will have to be developed and approved by NYCDEP prior to any site excavation activities.

EEA recommends submitting this report to NYCDEP for their review and comments.

## **VI. SAMPLING METHODOLOGY**

### **a. Soil and Groundwater Sampling**

Soil and groundwater samples were obtained by a Geoprobe drill rig. The soil and groundwater samples were collected and placed in laboratory pre-cleaned sample jars. The sample jars were then placed in a cooler and chilled to a temperature of 4 degrees C.

### **b. Quality Assurance and Quality Control QA/QC Plan**

EEA implements a QA/QC Plan to ensure sample integrity and avoid contamination and/or cross-contamination of samples. All sampling equipment is cleaned before each sample is collected. The following procedures are followed in the decontamination process:

Step 1: Steam clean equipment.

Step 2: Scrub with a bristle brush using a non-phosphate detergent (such as Alconox).

Step 3: Rinse with hot tap water.

Step 4: Rinse twice with deionized water.

Step 5: Air dry.

Step 6 Nitric Acid (5%) solution rinse (if sampling for metals)

Step 7: Rinse twice with deionized water.

Step 8: Air dry.

## **VII. QUALIFICATIONS**

EEA, Inc. is an environmental consulting firm that has undertaken environmental pollution investigations, development feasibility studies, and environmental site assessment studies since 1979. These site evaluation studies have been prepared for major lenders, public corporations, businesses, developers and governmental agencies. Approximately 4,000 parcels have been evaluated in the metropolitan New York-New Jersey area during the past twenty years, ranging from Phase I Environmental Site Assessments to comprehensive subsurface hazardous material investigations and testing programs. EEA also prepares bid specifications for remedial cleanup actions and supervises site cleanup.

EEA's principals and senior managers for the hazardous waste investigations each have over 20 years experience in environmental consulting, with established credentials in the field.

Individual qualifications of EEA personnel, including specific credentials of persons involved in the preparation of this report can be provided upon request.

## **VIII. DISCLAIMER**

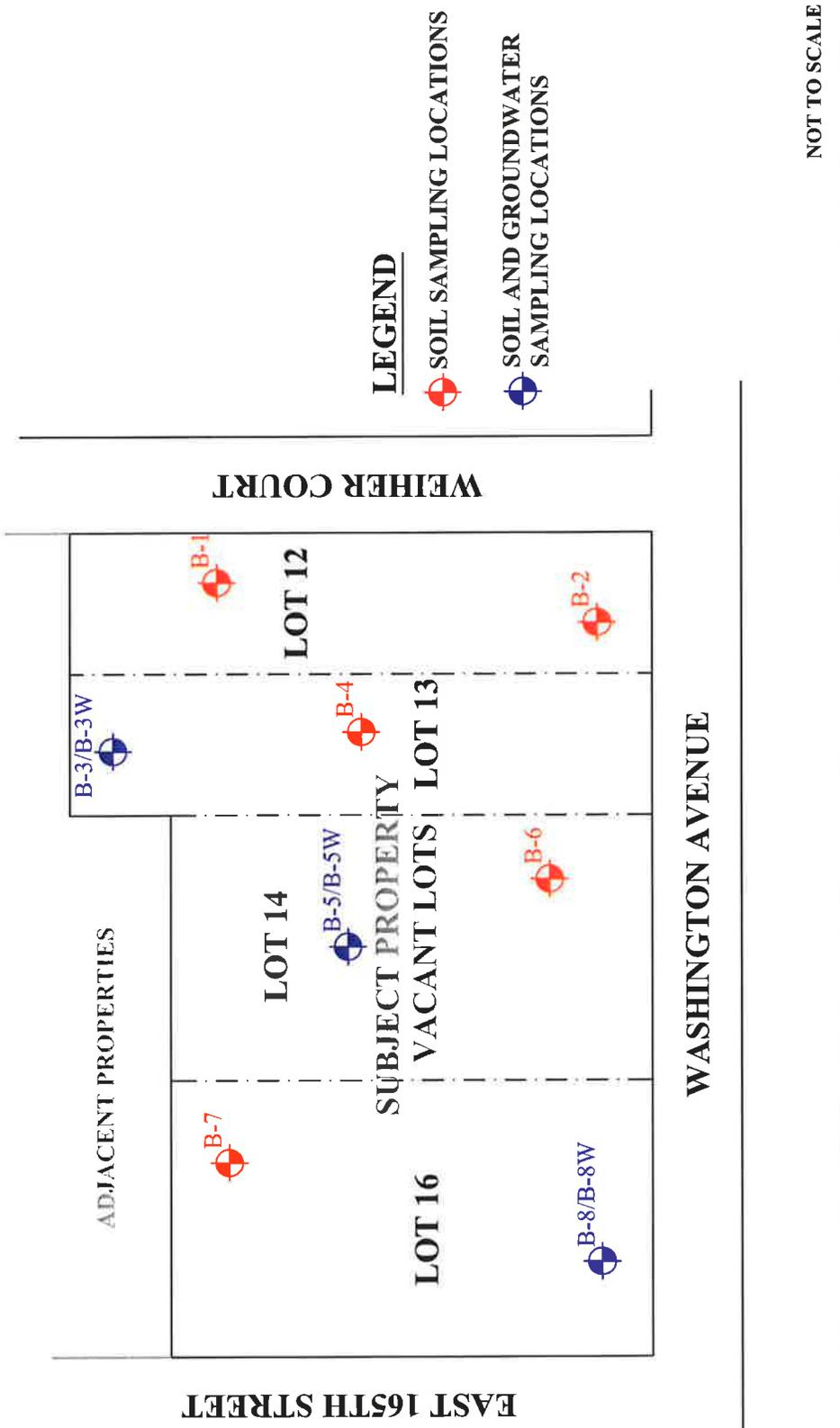
This report is for use by Jackson Development Group Limited and is only to be used as a guide in determining the potential for contamination by toxic or hazardous materials on the subject property at the time of the site visit. This Phase II Environmental Subsurface Investigation was undertaken in accordance with generally accepted protocols, including ASTM Standards Related to the Phase II Environmental Site Assessment Process. This Phase II Investigation is based principally on the review of historic and regulatory records (made available within a reasonable time period), relating to past occupants and usage of the subject property, as well as activities at nearby sites, and upon a visual assessment of the subject property, and makes no determinations with respect to portions of the subject property and its structures which were not inspected. Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable qualified professionals practicing in this or similar situations. The interpretation of the field data is based on good judgment and experience. However, no matter how qualified the professional or detailed the investigation, subsurface conditions cannot always be predicted beyond the points of actual sampling and testing. No other warranty, expressed or implied, is made to the professional advice included in this report.

Any and all liability on the part of EEA, Inc. shall be limited solely to EEA's professional liability insurance (errors and omissions coverage of one million dollars). EEA, Inc. shall have no liability for any other damages, whether consequential, compensatory, punitive, or special, arising out of, incidental to, or as a result of, this assessment. EEA, Inc. assumes no liability for the use of this report by any person or entity other than the institution and/or entities or persons for whom it has been prepared.

## **IX. REFERENCES**

1. *NYSDEC Bureau of Spill Prevention & Response Sampling Guidelines and Protocols, March 1991.*
2. *Draft DER-10 Technical Guidance for Site Investigation and Remediation, December 2002.*
3. *EPDSCO's Environmental Site Assessment, September 2007.*
4. *Bedrock and Engineering Geologic maps of Bronx County, USGS, Charles Baskerville, 1992.*
5. *NYSDEC Brownfield Cleanup Program, Soil Cleanup Objectives, 6 NYCRR Part 375-6.8, 12/14/2006.*
6. *NYCDEP approved EEA's Investigation Work Plan and Health and Safety Plan dated December 17, 2007.*

# FIGURES



**LEGEND**

SOIL SAMPLING LOCATIONS

SOIL AND GROUNDWATER SAMPLING LOCATIONS

NOT TO SCALE

**EEA, Inc.**

55 Hilton Avenue  
Garden City, New York  
(516) 746-4400

**Figure 1: Site Plan**  
**1016-1026 Washington Avenue**  
**Bronx, New York**

Job No.: 08718

Drawn By: HP

Date: 6/20/2008

# **TABLES**

**Table 1**  
**Soil Samples Volatile Organic Analytical Results**  
**1016 - 1026 Washington Avenue, Bronx, New York**

Sample Identification	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives	6 NYCRR Part 375-6.8(b) Brownfield Residential Soil Cleanup Objectives
Boring Number	B-1		B-2		B-3		B-4			
Sample Depth	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet		
Sample Date	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
Volatile Organic Compounds (ug/kg) - EPA Method 8260										
Benzene	<10	<10	<10	<10	<10	<10	<10	<10	60	2,900
Bromobenzene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Bromochloromethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Bromodichloromethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Bromoform	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Bromomethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
n-Butylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	10,000	100,000
sec-Butylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	10,000	100,000
tert-Butylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	10,000	100,000
Carbon tetrachloride	<10	<10	<10	<10	<10	<10	<10	<10	600	1,400
Chlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	1,700	100,000
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	1,900	NG
Chloroform	<10	<10	<10	<10	<10	<10	<10	<10	300	100,000
1-Chlorohexane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Chloromethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
2-Chlorotoluene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
4-Chlorotoluene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Dibromochloromethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,2-Dibromoethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Dibromomethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,2-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	7,900	1,100
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	1,600	17,000
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	8,500	9,800
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,1-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	200	19,000
1,2-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	100	2,300
1,1-Dichloroethylene	<10	<10	<10	<10	<10	<10	<10	<10	NS	100,000
1,2-Dichloroethylene (Total)	<10	<10	<10	<10	<10	<10	<10	<10	NS	
1,2-Dichloropropane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,3-Dichloropropane	<10	<10	<10	<10	<10	<10	<10	<10	300	NG
2,2-Dichloropropane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,1-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
cis-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Ethylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	5,500	30,000
Hexachlorobutadiene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Isopropylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	2,300	NG
p-Isopropyltoluene	<10	<10	<10	<10	<10	<10	<10	<10	10,000	NG
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	100	51,000
Naphthalene	<10	<10	<10	<10	<10	<10	<10	<10	13,000	100,000
n-Propylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	3,700	100,000
Styrene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,1,1,2-Tetrachloroethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	<10	<10	<10	<10	600	NG
Tetrachloroethylene	<10	<10	<10	<10	<10	<10	<10	<10	1,400	5,500
Toluene	<10	<10	<10	<10	<10	<10	<10	<10	1,500	100,000
1,2,3-Trichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	10,000	NG
1,2,4-Trichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,1,1-Trichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	800	100,000
1,1,2-Trichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Trichloroethylene	<10	<10	<10	<10	<10	<10	<10	<10	NS	10,000
Trichlorofluoromethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,2,3-Trichloropropane	<10	<10	<10	<10	<10	<10	<10	<10	400	NG
1,2,3-Trimethylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,2,4-Trimethylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	10,000	NG
1,3,5-Trimethylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	3,300	NG
Vinyl chloride	<10	<10	<10	<10	<10	<10	<10	<10	200	210
o-Xylene	<10	<10	<10	<10	<10	<10	<10	<10	1,200	100,000
p- & m-Xylenes	<10	<10	<10	<10	<10	<10	<10	<10	1,200	1,600
MTBE	<10	<10	<10	<10	<10	<10	<10	<10	120	6,200

NS - No Standard  
ug/kg - micrograms per kilogram

Table 1...contd.  
**Soil Samples Volatile Organic Analytical Results**  
**1016 - 1026 Washington Avenue, Bronx, New York**

Sample Identification	S-9	S-10	S-11	S-12	S-13	S-14	S-15	S-16	NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives	6 NYCRR Part 375-6.8(b) Brownfield Residential Soil Cleanup Objectives
Boring Number	B-5		B-6		B-7		B-8			
Sample Depth	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet		
Sample Date	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
Volatile Organic Compounds (ug/kg) - EPA Method 8260										
Benzene	<10	<10	<10	<10	<10	<10	<10	<10	60	2,900
Bromobenzene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Bromochloromethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Bromodichloromethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Bromoform	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Bromomethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
n-Butylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	10,000	100,000
sec-Butylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	10,000	100,000
tert-Butylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	10,000	100,000
Carbon tetrachloride	<10	<10	<10	<10	<10	<10	<10	<10	600	1,400
Chlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	1,700	100,000
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	1,900	NG
Chloroform	<10	<10	<10	<10	<10	<10	<10	<10	300	100,000
1-Chlorohexane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Chloromethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
2-Chlorotoluene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
4-Chlorotoluene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Dibromochloromethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,2-Dibromoethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Dibromomethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,2-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	7,900	1,100
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	1,600	17,000
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	8,500	9,800
Dichlorodifluoromethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,1-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	200	19,000
1,2-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	100	2,300
1,1-Dichloroethylene	<10	<10	<10	<10	<10	<10	<10	<10	NS	100,000
1,2-Dichloroethylene (Total)	<10	<10	<10	<10	<10	<10	<10	<10	NS	
1,2-Dichloropropane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,3-Dichloropropane	<10	<10	<10	<10	<10	<10	<10	<10	300	NG
2,2-Dichloropropane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,1-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
cis-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
trans-1,3-Dichloropropylene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Ethylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	5,500	30,000
Hexachlorobutadiene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Isopropylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	2,300	NG
p-Isopropyltoluene	<10	<10	<10	<10	<10	<10	<10	<10	10,000	NG
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	100	51,000
Naphthalene	<10	<10	<10	<10	<10	<10	<10	<10	13,000	100,000
n-Propylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	3,700	100,000
Styrene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,1,1,2-Tetrachloroethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	<10	<10	<10	<10	600	NG
Tetrachloroethylene	<10	<10	<10	<10	<10	<10	<10	<10	1,400	5,500
Toluene	<10	<10	<10	<10	<10	<10	<10	<10	1,500	100,000
1,2,3-Trichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	10,000	NG
1,2,4-Trichlorobenzene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,1,1-Trichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	800	100,000
1,1,2-Trichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
Trichloroethylene	<10	<10	<10	<10	<10	<10	<10	<10	NS	10,000
Trichlorofluoromethane	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,2,3-Trichloropropane	<10	<10	<10	<10	<10	<10	<10	<10	400	NG
1,2,3-Trimethylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	NS	NG
1,2,4-Trimethylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	10,000	NG
1,3,5-Trimethylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	3,300	NG
Vinyl chloride	<10	<10	<10	<10	<10	<10	<10	<10	200	210
o-Xylene	<10	<10	<10	<10	<10	<10	<10	<10	1,200	100,000
p- & m-Xylenes	<10	<10	<10	<10	<10	<10	<10	<10	1,200	1,600
MTBE	<10	<10	<10	<10	<10	<10	<10	<10	120	6,200

NS No Standard  
ug/kg micrograms per kilogram

**Table 2**  
**Soil Samples Semi-Volatile Organic Analytical Results**  
**1016 - 1026 Washington Avenue, Bronx, New York**

Sample Identification	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives	6 NYCRR Part 375-6.8(b) Brownfield Residential Soil Cleanup Objectives
	B-1		B-2		B-3		B-4			
Boring Number	B-1		B-2		B-3		B-4			
Sample Depth	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet		
Sample Date	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
Semi-Volatile Organic Compounds (ug/kg) - EPA Method 8270										
Acenaphthene	<1700	<165	<830	<165	<165	<165	<330	<165	50000	100,000
Acenaphthylene	<1700	<165	<830	<165	<165	<165	<330	<165	41000	100,000
Anthracene	11000	<165	2900	<165	<165	<165	590	<165	50000	100,000
Benzo (a) anthracene	7300	<165	2200	<165	<165	<165	480	<165	224	1,000
Benzo (b) fluoranthene	16000	<165	4700	<165	<165	<165	720	<165	1100	1,000
Benzo (k) fluoranthene	15000	<165	4500	<165	<165	<165	710	<165	1100	1,000
Benzo (g,h,i) perylene	<1700	<165	<830	<165	<165	<165	<330	<165	50000	100,000
Benzo (a) pyrene	12000	<165	3900	<165	<165	<165	700	<165	61	1,000
Bis(2-chloroethoxy)methane	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
Bis(2-chloroethyl)ether	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
Bis(2-chloroisopropyl)ether	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
Bis(2-ethylhexyl)phthalate	<1700	<165	<830	<165	<165	<165	1100	<165	50000	NG
4-Bromophenyl phenyl ether	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
Butyl benzyl phthalate	<1700	<165	<830	<165	<165	<165	<330	<165	50000	NG
4-Chloroaniline	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
2-Chloronaphthalene	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
4-Chlorophenyl phenyl ether	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
Chrysene	8400	<165	2100	<165	<165	<165	480	<165	400	1,000
Dibenz (a,h) anthracene	<1700	<165	<830	<165	<165	<165	<330	<165	14.3	330
Dibenzofuran	<1700	<165	<830	<165	<165	<165	<330	<165	6200	14,000
Di-n-butyl phthalate	<1700	<165	<830	<165	<165	<165	<330	<165	8100	NG
1,3-Dichlorobenzene	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
1,4-Dichlorobenzene	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
1,2-Dichlorobenzene	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
3,3'-Dichlorobenzidine	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
Diethyl phthalate	<1700	<165	<830	<165	<165	<165	<330	<165	7100	NG
Dimethyl phthalate	<1700	<165	<830	<165	<165	<165	<330	<165	2000	NG
2,4-Dinitrotoluene	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
2,6-Dinitrotoluene	<1700	<165	<830	<165	<165	<165	<330	<165	1000	NG
Di-n-octyl phthalate	<1700	<165	<830	<165	<165	<165	<330	<165	50000	NG
Fluoranthene	18000	<165	5900	<165	<165	<165	900	<165	50000	100,000
Fluorene	<1700	<165	<830	<165	<165	<165	<330	<165	50000	100,000
Hexachlorobenzene	<1700	<165	<830	<165	<165	<165	<330	<165	410	NG
Hexachlorobutadiene	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
Hexachlorocyclopentadiene	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
Hexachloroethane	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
Indeno (1,2,3-cd) pyrene	<1700	<165	<830	<165	<165	<165	<330	<165	3200	500
Isophorone	<1700	<165	<830	<165	<165	<165	<330	<165	4400	NG
2-Methylnaphthalene	<1700	<165	<830	<165	<165	<165	<330	<165	36400	NG
Naphthalene	<1700	<165	<830	<165	<165	<165	<330	<165	13000	100,000
2-Nitroaniline	<1700	<165	<830	<165	<165	<165	<330	<165	430	NG
3-Nitroaniline	<1700	<165	<830	<165	<165	<165	<330	<165	500	NG
4-Nitroaniline	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
Nitrobenzene	<1700	<165	<830	<165	<165	<165	<330	<165	200	NG
N-Nitrosodiphenylamine	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
N-Nitrosodi-n-propylamine	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
Phenanthrene	15000	<165	3600	<165	<165	<165	550	<165	50000	100,000
Pyrene	16000	<165	4100	<165	<165	<165	670	<165	50000	100,000
1,2,4-Trichlorobenzene	<1700	<165	<830	<165	<165	<165	<330	<165	NS	NG
Carbazole	1600	<165	<830	<165	<165	<165	<330	<165	NS	NG

NS: No Standard

ug/kg = micrograms per kilogram

Shaded values represents concentration exceeding NYSDEC TAGM 4046 soil cleanup guidelines for Brownfield Residential SCO

Shaded values represents concentration exceeding NYSDEC TAGM 4046 soil cleanup guidelines as well as Brownfield Residential SCO

Table 2... contd.  
 Soil Samples Semi-Volatile Organic Analytical Results  
 1016 - 1026 Washington Avenue, Bronx, New York

Sample Identification	S-9	S-10	S-11	S-12	S-13	S-14	S-15	S-16	NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives	6 NYCRR Part 375-6.8(b) Brownfield Residential Soil Cleanup Objectives
Boring Number	B-5		B-6		B-7		B-8			
Sample Depth	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet		
Sample Date	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
Semi-Volatile Organic Compounds (ug/kg) - EPA Method 8270										
Acenaphthene	<830	<165	<330	<165	<165	<165	<165	<165	50000	100,000
Acenaphthylene	<830	<165	<330	<165	<165	<165	<165	<165	41000	100,000
Anthracene	1300	310	<330	<165	<165	310	<165	<165	50000	100,000
Benzo (a) anthracene	1400	290	<330	<165	<165	220	<165	<165	224	1,000
Benzo (b) fluoranthene	2700	560	710	<165	250	460	<165	<165	1100	1,000
Benzo (k) fluoranthene	2600	540	700	<165	210	450	<165	<165	1100	1,000
Benzo (g,h,i) perylene	<830	<165	<330	<165	<165	<165	<165	<165	50000	100,000
Benzo (a) pyrene	2200	530	670	<165	210	440	<165	<165	61	1,000
Bis(2-chloroethoxy)methane	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
Bis(2-chloroethyl)ether	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
Bis(2-chloroisopropyl)ether	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
Bis(2-ethylhexyl)phthalate	<830	<165	<330	<165	<165	<165	<165	<165	50000	NG
4-Bromophenyl phenyl ether	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
Butyl benzyl phthalate	<830	<165	<330	<165	<165	<165	<165	<165	50000	NG
4-Chloroaniline	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
2-Chloronaphthalene	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
4-Chlorophenyl phenyl ether	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
Chrysene	2000	400	490	<165	<165	330	<165	<165	400	1,000
Dibenz (a,h) anthracene	<830	<165	<330	<165	<165	<165	<165	<165	14.3	330
Dibenzofuran	<830	<165	<330	<165	<165	<165	<165	<165	6200	14,000
Di-n-butyl phthalate	<830	<165	<330	<165	<165	<165	<165	<165	8100	NG
1,3-Dichlorobenzene	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
1,4-Dichlorobenzene	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
1,2-Dichlorobenzene	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
3,3'-Dichlorobenzidine	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
Diethyl phthalate	<830	<165	<330	<165	<165	<165	<165	<165	7100	NG
Dimethyl phthalate	<830	<165	<330	<165	<165	<165	<165	<165	2000	NG
2,4-Dinitrotoluene	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
2,6-Dinitrotoluene	<830	<165	<330	<165	<165	<165	<165	<165	1000	NG
Di-n-octyl phthalate	<830	<165	<330	<165	<165	<165	<165	<165	50000	NG
Fluoranthene	3300	620	570	<165	330	560	<165	<165	50000	100,000
Fluorene	<830	<165	<330	<165	<165	<165	<165	<165	50000	100,000
Hexachlorobenzene	<830	<165	<330	<165	<165	<165	<165	<165	410	NG
Hexachlorobutadiene	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
Hexachlorocyclopentadiene	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
Hexachloroethane	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
Indeno (1,2,3-cd) pyrene	<830	<165	<330	<165	<165	<165	<165	<165	3200	500
Isophorone	<830	<165	<330	<165	<165	<165	<165	<165	4400	NG
2-Methylnaphthalene	<830	<165	<330	<165	<165	<165	<165	<165	36400	NG
Naphthalene	<830	<165	<330	<165	<165	<165	<165	<165	13000	100,000
2-Nitroaniline	<830	<165	<330	<165	<165	<165	<165	<165	430	NG
3-Nitroaniline	<830	<165	<330	<165	<165	<165	<165	<165	500	NG
4-Nitroaniline	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
Nitrobenzene	<830	<165	<330	<165	<165	<165	<165	<165	200	NG
N-Nitrosodiphenylamine	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
N-Nitrosodi-n-propylamine	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
Phenanthrene	1400	330	<330	<165	<165	330	<165	<165	50000	100,000
Pyrene	2200	470	520	<165	320	430	<165	<165	50000	100,000
1,2,4-Trichlorobenzene	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG
Carbazole	<830	<165	<330	<165	<165	<165	<165	<165	NS	NG

NS - No Significant

ug/kg - micrograms per kilogram

Shaded values represents concentration exceeding NYSD ECTAGM 4046 soil cleanup guidelines but below Brownfield Residential SCO

Shaded values represents concentration exceeding NYSD ECTAGM 4046 soil cleanup guidelines as well as Brownfield Residential SCO

Table 3  
Soil Samples Pesticides and PCBs Analytical Results  
1016 - 1026 Washington Avenue, Bronx, New York

Sample Identification	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives	6 NYCRR Part 375-6.8(b) Brownfield Residential Soil Cleanup Objectives
	B-1		B-2		B-3		B-4			
Boring Number	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet		
Sample Depth	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008		
Sample Date	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Matrix	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
Units	<b>Pesticides - EPA Method 8081</b>									
Aldrin	<8	<8	<8	<8	<8	<8	<8	<8	41	19
alpha-BHC	<8	<8	<8	<8	<8	<8	<8	<8	110	97
beta-BHC	<8	<8	<8	<8	<8	<8	<8	<8	200	72
delta-BHC	<8	<8	<8	<8	<8	<8	<8	<8	300	100000
gamma-BHC (Lindane)	<8	<8	<8	<8	<8	<8	<8	<8	60	280
4,4'-DDD	85.2	<16	78.1	<16	<16	<16	19.9	23.4	2900	2600
4,4'-DDE	137	<16	39.7	70.4	<16	<16	63.8	62	2100	1800
4,4'-DDT	413	<16	227	94.7	<16	<16	91	225	2100	1700
Dieldrin	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	44	39
Endosulfan I	<8	<8	<8	<8	<8	<8	<8	<8	900	4800
Endosulfan II	<16	<16	<16	<16	<16	<16	<16	<16	900	4800
Endosulfan sulfate	<16	<16	<16	<16	<16	<16	<16	<16	1000	4800
Endrin	<16	<16	<16	<16	<16	<16	<16	<16	100	2200
Endrin aldehyde	<16	<16	<16	<16	<16	<16	<16	<16	NS	NG
Heptachlor	<8	<8	<8	<8	<8	<8	<8	<8	100	420
Heptachlor epoxide	<8	<8	<8	<8	<8	<8	<8	<8	20	NG
Methoxychlor	<80	<80	<80	<80	<80	<80	<80	<80	NS	NG
Toxaphene	<200	<200	<200	<200	<200	<200	<200	<200	NS	NG
Chlordane, Total	336	<20	49.6	66.2	<20	<20	57	85.2	540	NG
<b>PCBs - EPA Method 8082</b>										
Aroclor 1016	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000
Aroclor 1221	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000
Aroclor 1232	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000
Aroclor 1242	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000
Aroclor 1248	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000
Aroclor 1254	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000
Aroclor 1260	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000

NS : No Standard  
ug/kg...micrograms per kilogram  
Bold values indicate concentrations exceeding laboratory method detection limits.

Table 3...contd.  
Soil Samples Pesticides and PCBs Analytical Results  
1016 - 1026 Washington Avenue, Bronx, New York

Sample Identification	S-9	S-10	S-11	S-12	S-13	S-14	S-15	S-16	NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives	6 NYCRR Part 375-6.8(b) Brownfield Residential Soil Cleanup Objectives
	B-5 0 to 2 feet 5/21/2008 Soil ug/kg	B-5 10 to 12 feet 5/21/2008 Soil ug/kg	B-6 0 to 2 feet 5/21/2008 Soil ug/kg	B-6 10 to 12 feet 5/21/2008 Soil ug/kg	B-7 0 to 2 feet 5/21/2008 Soil ug/kg	B-7 10 to 12 feet 5/21/2008 Soil ug/kg	B-8 0 to 2 feet 5/21/2008 Soil ug/kg	B-8 10 to 12 feet 5/21/2008 Soil ug/kg		
<b>Pesticides - EPA Method 8081</b>										
Aldrin	<8	<8	<8	<8	<8	<8	<8	<8	41	19
alpha-BHC	<8	<8	<8	<8	<8	<8	<8	<8	110	97
beta-BHC	<8	<8	<8	<8	<8	<8	<8	<8	200	72
delta-BHC	<8	<8	<8	<8	<8	<8	<8	<8	300	100000
gamma-BHC (Lindane)	<8	<8	<8	<8	<8	<8	<8	<8	60	280
4,4'-DDD	<16	40.6	<16	<16	<16	<16	<16	<16	2900	2500
4,4'-DDE	55.5	31.4	55.2	<16	<16	23.3	<16	<16	2100	1800
4,4'-DDT	523	376	364	<16	22	195	69.1	<16	2100	1700
Dieldrin	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	44	39
Endosulfan I	<8	<8	<8	<8	<8	<8	<8	<8	900	4800
Endosulfan II	<16	<16	<16	<16	<16	<16	<16	<16	900	4800
Endosulfan sulfate	<16	<16	<16	<16	<16	<16	<16	<16	1000	4800
Endrin	<16	<16	<16	<16	<16	<16	<16	<16	100	2200
Endrin aldehyde	<16	<16	<16	<16	<16	<16	<16	<16	NS	NG
Heptachlor	<8	<8	<8	<8	<8	<8	<8	<8	100	420
Heptachlor epoxide	<8	<8	<8	<8	<8	<8	<8	<8	20	NG
Methoxychlor	<80	<80	<80	<80	<80	<80	<80	<80	NS	NG
Toxaphene	<200	<200	<200	<200	<200	<200	<200	<200	NS	NG
Chlordane, Total	460	571	146	<20	150	267	34.8	<20	540	NG
<b>PCBs - EPA Method 8082</b>										
Aroclor 1016	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000
Aroclor 1221	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000
Aroclor 1232	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000
Aroclor 1242	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000
Aroclor 1248	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000
Aroclor 1254	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000
Aroclor 1260	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	1,000	1,000

NS : No Standard

ug/kg...micrograms per kilogram

Bold values indicate concentrations exceeding laboratory method detection limits.

Starred values represent concentration exceeding NYSDEC TAGM 4046 soil cleanup guidelines

**Table 4**  
**Soil Samples Inorganic Analytical Results**  
**1016 - 1026 Washington Avenue, Bronx, New York**

Sample Identification	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives (mg/kg)	NYSDEC Eastern USA Background (mg/kg)	6 NYCRR Part 375-6.8(b) Brownfield Residential Soil Cleanup Objectives
	B-1	B-2	B-3	B-4	Metals (TAL)						
Boring Number	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet			
Sample Depth	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008			
Sample Date	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
Units											
Aluminum	5,000	8,360	5,450	7,360	13,100	4,470	6,520	4,220	SB	33,000	NG
Antimony	1.58	1.02	<1	<1	<1	<1	<1	<1	SB	N/A	NG
Arsenic	6	3	4	3	4	2	5	3	7.5	3 to 12	16
Barium	1,970	59	1,050	279	68	35	387	580	300 or SB	15 to 600	350
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.16 (HEAST) or SB	0 to 1.75	14
Cadmium	1.02	<0.5	0.66	0.71	<0.5	<0.5	8.85	4.21	1 or SB	0.1 to 1	2.5
Calcium	55,600	2,400	37,300	50,400	1,240	1,540	27,800	35,100	SB	30 to 35,000	NG
Chromium	17.50	21.50	10.70	12.70	17.50	13.50	47.70	24.10	10 or SB	1.5 to 40	36
Cobalt	5.50	9.09	4.63	5.46	7.75	7.82	6.44	4.30	30 or SB	2.5 to 60	NG
Copper	25	23.90	15.80	26.80	10	23.40	39	33.50	25 or SB	1 to 50	270
Iron	7,910	16,400	9,460	14,300	19,700	11,600	29,800	30,100	2,000 or SB	2,000 to 550,000	NG
Lead	1,150	7.99	369	142.00	13	4.16	332	351.00	SB	200 to 500	400
Magnesium	7,340	4,490	7,670	9,510	2,190	2,070	5,870	5,170	SB	100 to 5,000	NG
Manganese	216	369	263	234	324	268	292	291	SB	50 to 5,000	2000
Nickel	9.96	18.90	7.73	11.40	10.20	12.40	53.50	25.80	13 or SB	0.5 to 25	140
Potassium	1,100	1,400	903	893	409	815	982	603	SB	8,500 to 43,000	NG
Selenium	<1	<1	<1	<1	<1	<1	<1	<1	2 or SB	0.1 to 3.9	36
Silver	<1	<1	<1	<1	<1	<1	<1	<1	SB	N/A	36
Sodium	678	94	690	271	39	113	346	305	SB	6,000 to 8,000	NG
Thallium	<1	<1	<1	<1	<1	<1	<1	<1	SB	N/A	NG
Vanadium	19	27	16	25	24	27	21	15	150 or SB	1 to 300	NG
Zinc	835	54	586	247	45	32	450	441	20 or SB	9 to 50	2200
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.001 to 0.2	0.81

NS - No Standard  
mg/kg - milligram per kilogram

Shaded values represents concentration exceeding NYSDEC TAGM 4046 soil cleanup guidelines/Site Background but below Brownfield Residential SCO  
Stippled values represents concentration exceeding NYSDEC TAGM 4046 soil cleanup guidelines as well as Brownfield Residential SCO

Table 4... contd.

Soil Samples Inorganic Analytical Results  
1016 - 1026 Washington Avenue, Bronx, New York

Sample Identification	S-9	S-10	S-11	S-12	S-13	S-14	S-15	S-16	NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives (mg/kg)	NYSDEC Eastern USA Background (mg/kg)	6 NYCRR Part 375-6.8(b) Brownfield Residential Soil Cleanup Objectives
	B-5		B-6		B-7		B-8				
	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet	0 to 2 feet	10 to 12 feet			
Sample Depth	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008			
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
Metals (TAL)											
Aluminum	6,890	10,600	3,940	11,600	6,420	7,490	7,560	7,790	SB	33,000	NG
Antimony	<1	<1	1.50	<1	1.58	1.39	1.22	<1	SB	N/A	NG
Arsenic	5	4	3	3	3	4	4	4	7.5	3 to 12	16
Barium	2,620	99	2,000	87	810	1,050	522	62	300 or SB	15 to 600	350
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	0.16 (HEAST) or SB	0 to 1.75	14
Cadmium	1.23	<0.5	1.06	0.50	0.60	0.83	0.61	<0.5	1 or SB	0.1 to 1	2.5
Calcium	45,100	15,700	52,800	2,780	36,100	33,400	27,900	13,000	SB	30 to 35,000	NG
Chromium	34.10	24.20	12.50	30.60	14.60	19.80	21.10	19.60	10 or SB	1.5 to 40	36
Cobalt	6.53	9.74	3.81	10.90	5.68	6.52	6.52	7.78	30 or SB	2.5 to 60	NG
Copper	35	25.40	18.00	26.70	17	18.60	25	20.20	25 or SB	1 to 50	270
Iron	12,600	17,700	17,100	19,600	9,150	10,800	13,100	14,800	2,000 or SB	2,000 to 550,000	NG
Lead	251	8.13	415	7.75	184	341.00	198	5.72	SB	200 to 500	400
Magnesium	3,690	10,700	3,550	6,030	3,740	4,580	3,170	8,810	SB	100 to 5,000	NG
Manganese	253	328	184	415	207	245	261	285	SB	50 to 5,000	2000
Nickel	22.20	20.50	7.37	23.90	10.20	12.80	11.60	16.90	13 or SB	0.5 to 25	140
Potassium	1,390	2,800	667	2,390	929	1,320	1,020	1,920	SB	8,500 to 43,000	NG
Selenium	<1	<1	<1	<1	<1	<1	<0.5	<0.5	2 or SB	0.1 to 3.9	36
Silver	<1	<1	<1	<1	<1	<1	<0.5	<0.5	SB	N/A	36
Sodium	818	157	536	101	409	415	368	124	SB	6,000 to 8,000	NG
Thallium	<1	<1	<1	<1	<1	<1	<1	<1	SB	N/A	NG
Vanadium	22	28	13	34	15	24	22	23	150 or SB	1 to 300	NG
Zinc	1,160	61	859	66	440	507	296	45	20 or SB	9 to 50	2200
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.001 to 0.2	0.81

NS : No Standard  
n/kg :... milligrams per kilogram

Shaded values represents concentration exceeding NYSDEC TAGM 4046 soil cleanup guidelines/616 Background and below Brownfield Residential SCO  
Shaded values represents concentration exceeding NYSDEC TAGM 4046 soil cleanup guidelines as well as Brownfield Residential SCO

**Table 5**  
**Water Samples Volatile Organic Analytical Results**  
**1016 - 1026 Washington Avenue, Bronx, New York**

Sample Identification	S-17	S-18	S-19	NYSDEC TOGS 1.1.1 Groundwater Quality Standards
Boring Number	B-3W	B-5W	B-8W	
Sample Date	5/21/2008	5/21/2008	5/21/2008	
Sample Matrix	Water	Water	Water	
Units	ug/L	ug/L	ug/L	
Volatile Organic Compounds (ug/kg) - EPA Method 8260				
Benzene	< 5	< 5	< 5	1
Bromobenzene	< 5	< 5	< 5	5
Bromochloromethane	< 5	< 5	< 5	5
Bromodichloromethane	< 5	< 5	< 5	NS
Bromoform	< 5	< 5	< 5	NS
Bromomethane	< 5	< 5	< 5	5
n-Butylbenzene	< 5	< 5	< 5	5
sec-Butylbenzene	< 5	< 5	< 5	5
tert-Butylbenzene	< 5	< 5	< 5	5
Carbon tetrachloride	< 5	< 5	< 5	5
Chlorobenzene	< 5	< 5	< 5	5
Chloroethane	< 5	< 5	< 5	5
Chloroform	< 5	< 5	< 5	7
1-Chlorohexane	< 5	< 5	< 5	NS
Chloromethane	< 5	< 5	< 5	NS
2-Chlorotoluene	< 5	< 5	< 5	5
4-Chlorotoluene	< 5	< 5	< 5	5
Dibromochloromethane	< 5	< 5	< 5	50
1,2-Dibromo-3-chloropropane	< 5	< 5	< 5	0.04
1,2-Dibromoethane	< 5	< 5	< 5	5
Dibromomethane	< 5	< 5	< 5	5
1,2-Dichlorobenzene	< 5	< 5	< 5	3
1,3-Dichlorobenzene	< 5	< 5	< 5	3
1,4-Dichlorobenzene	< 5	< 5	< 5	3
Dichlorodifluoromethane	< 5	< 5	< 5	NS
1,1-Dichloroethane	< 5	< 5	< 5	5
1,2-Dichloroethane	< 5	< 5	< 5	5
1,1-Dichloroethylene	< 5	< 5	< 5	5
1,2-Dichloroethylene (Total)	< 5	< 5	< 5	5
1,2-Dichloropropane	< 5	< 5	< 5	1
1,3-Dichloropropane	< 5	< 5	< 5	5
2,2-Dichloropropane	< 5	< 5	< 5	5
1,1-Dichloropropylene	< 5	< 5	< 5	5
cis-1,3-Dichloropropylene	< 5	< 5	< 5	0.4
trans-1,3-Dichloropropylene	< 5	< 5	< 5	0
Ethylbenzene	< 5	< 5	< 5	5
Hexachlorobutadiene	< 5	< 5	< 5	5
Isopropylbenzene	< 5	< 5	< 5	5
p-Isopropyltoluene	< 5	< 5	< 5	5
Methylene chloride	< 5	< 5	< 5	5
Naphthalene	< 5	< 5	< 5	10
n-Propylbenzene	< 5	< 5	< 5	5
Styrene	< 5	< 5	< 5	5
1,1,1,2-Tetrachloroethane	< 5	< 5	< 5	5
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	5
Tetrachloroethylene	< 5	< 5	< 5	5
Toluene	< 5	< 5	< 5	5
1,2,3-Trichlorobenzene	< 5	< 5	< 5	5
1,2,4-Trichlorobenzene	< 5	< 5	< 5	5
1,1,1-Trichloroethane	< 5	< 5	< 5	5
1,1,2-Trichloroethane	< 5	< 5	< 5	1
Trichloroethylene	< 5	< 5	< 5	5
Trichlorofluoromethane	< 5	< 5	< 5	5
1,2,3-Trichloropropane	< 5	< 5	< 5	0.04
1,2,3-Trimethylbenzene	< 5	< 5	< 5	5
1,2,4-Trimethylbenzene	< 5	< 5	< 5	5
1,3,5-Trimethylbenzene	< 5	< 5	< 5	5
Vinyl chloride	< 5	< 5	< 5	2
o-Xylene	< 5	< 5	< 5	5
p- & m-Xylenes	< 5	< 5	< 5	5
MTBE	< 5	< 5	< 5	5

ug/L...micrograms per liter

**Table 6**  
**Water Samples Semi-Volatile Organic Analytical Results**  
**1016 - 1026 Washington Avenue, Bronx, New York**

Sample Identification	S-17	S-18	S-19	NYSDEC TOGS 1.1.1 Groundwater Quality Standards
Boring Number	B-3W	B-5W	B-8W	
Sample Date	5/21/2008	5/21/2008	5/21/2008	
Sample Matrix	Water	Water	Water	
Units	ug/L	ug/L	ug/L	
Semi-Volatile Organic Compounds (µg/kg) - EPA Method 8270				
Acenaphthene	<7.7	<8	<16.6	20
Acenaphthylene	<7.7	<8	<16.6	NS
Anthracene	<7.7	<8	<16.6	50
Benzo(a)anthracene	<7.7	<8	<16.6	NS
Benzo(b)fluoranthene	<7.7	<8	<16.6	0.002
Benzo(k)fluoranthene	<7.7	<8	<16.6	0.002
Benzo(g,h,i)perylene	<7.7	<8	<16.6	NS
Benzo(a)pyrene	<7.7	<8	<16.6	NS
Bis(2-chloroethoxy)methane	<7.7	<8	<16.6	NS
Bis(2-chloroethyl)ether	<7.7	<8	<16.6	1
Bis(2-chloroisopropyl)ether	<7.7	<8	<16.6	NS
Bis(2-ethylhexyl)phthalate	<7.7	<8	<16.6	5
4-Bromophenyl phenyl ether	<7.7	<8	<16.6	NS
Butyl benzyl phthalate	<7.7	<8	<16.6	50
4-Chloroaniline	<7.7	<8	<16.6	5
2-Chloronaphthalene	<7.7	<8	<16.6	10
4-Chlorophenyl phenyl ether	<7.7	<8	<16.6	NS
Chrysene	<7.7	<8	<16.6	0.002
Dibenzo(a,h)anthracene	<7.7	<8	<16.6	NS
Dibenzofuran	<7.7	<8	<16.6	NS
Di-n-butylphthalate	<7.7	<8	<16.6	50
1,3-Dichlorobenzene	<7.7	<8	<16.6	3
1,4-Dichlorobenzene	<7.7	<8	<16.6	3
1,2-Dichlorobenzene	<7.7	<8	<16.6	3
3,3'-Dichlorobenzidine	<7.7	<8	<16.6	5
Diethylphthalate	<7.7	<8	<16.6	NS
Dimethylphthalate	<7.7	<8	<16.6	NS
2,4-Dinitrotoluene	<7.7	<8	<16.6	5
2,6-Dinitrotoluene	<7.7	<8	<16.6	5
Di-n-octylphthalate	<7.7	<8	<16.6	50
Fluoranthene	<7.7	<8	<16.6	50
Fluorene	<7.7	<8	<16.6	50
Hexachlorobenzene	<7.7	<8	<16.6	0.04
Hexachlorobutadiene	<7.7	<8	<16.6	0.5
Hexachlorocyclopentadiene	<7.7	<8	<16.6	5
Hexachloroethane	<7.7	<8	<16.6	5
Indeno(1,2,3-cd)pyrene	<7.7	<8	<16.6	0.002
Isophorone	<7.7	<8	<16.6	0
2-Methylnaphthalene	<7.7	<8	<16.6	4.7
Naphthalene	<7.7	<8	<16.6	10
2-Nitroaniline	<7.7	<8	<16.6	5
3-Nitroaniline	<7.7	<8	<16.6	5
4-Nitroaniline	<7.7	<8	<16.6	5
Nitrobenzene	<7.7	<8	<16.6	0.4
N-Nitrosodiphenylamine	<7.7	<8	<16.6	50
N-Nitrosodi-n-propylamine	<7.7	<8	<16.6	NS
Phenanthrene	<7.7	<8	<16.6	50
Pyrene	<7.7	<8	<16.6	50
1,2,4-Trichlorobenzene	<7.7	<8	<16.6	5
Carbazole	<7.7	<8	<16.6	NS

ug/L...micrograms per liter  
NS... No Standards

GROUNDWATER

Table 7

Soil Samples Pesticides and PCBs Analytical Results

1016 - 1026 Washington Avenue, Bronx, New York

Sample Identification	S-17	S-18	S-19	NYSDEC TOGS 1.1.1 Groundwater Quality Standards
Boring Number	B-3W	B-5W	B-8W	
Sample Date	5/21/2008	5/21/2008	5/21/2008	
Sample Matrix	Water	Water	Water	
Units	ug/L	ug/L	ug/L	
<b>Pesticides - EPA Method 8081</b>				
Aldrin	<0.0336	<0.0312	<0.0792	NS
alpha-BHC	<0.0336	<0.0312	<0.0792	NS
beta-BHC	<0.0336	<0.0312	<0.0792	NS
delta-BHC	<0.0336	<0.0312	<0.0792	NS
gamma-BHC (Lindane)	<0.0336	<0.0312	<0.0792	NS
<b>Chlordane</b>	<0.14	<b>0.373</b>	<0.33	0.05
4,4'-DDD	<0.0672	<0.0624	<0.158	0.3
4,4'-DDE	<0.0672	<0.0624	<0.158	0.2
<b>4,4'-DDT</b>	<0.0672	<b>0.264</b>	<0.158	0.2
Dieldrin	<0.014	<0.013	<0.033	0.004
Endosulfan I	<0.0336	<0.0312	<0.0792	NS
Endosulfan II	<0.0672	<0.0624	<0.158	NS
Endosulfan sulfate	<0.0672	<0.0624	<0.158	NS
Endrin	<0.0672	<0.0624	<0.158	NS
Endrin aldehyde	<0.0672	<0.0624	<0.158	5
Heptachlor	<0.0336	<0.0312	<0.0792	0.04
Heptachlor epoxide	<0.0336	<0.0312	<0.0792	0.03
Methoxychlor	<0.336	<0.312	<0.792	35
Toxaphene	<1.4	<1.3	<3.3	0.06
<b>PCBs - EPA Method 8082</b>				
Aroclor 1016	<0.7	<0.65	<1.6	0.09
Aroclor 1221	<0.7	<0.65	<1.6	0.09
Aroclor 1232	<0.7	<0.65	<1.6	0.09
Aroclor 1242	<0.7	<0.65	<1.6	0.09
Aroclor 1248	<0.7	<0.65	<1.6	0.09
Aroclor 1254	<0.7	<0.65	<1.6	0.09
Aroclor 1260	<0.7	<0.65	<1.6	0.09

NS...No Standard

ug/L...micrograms per liter

NA...Not Analyzed

Shaded values indicate concentrations exceeding NYSDEC TOGS 1.1.1 GQS

Table 8

**Water Samples Inorganic Analytical Results**  
**1016 - 1026 Washington Avenue, Bronx, New York**

Sample Identification	S-17 Unfiltered	S-17 Filtered	S-18 Unfiltered	S-18 Filtered	S-19 Unfiltered	S-19 Filtered	NYSDEC TOGS 1.1.1 Groundwater Quality Standard
	B-3W 5/21/2008 Water ug/L	B-3W 5/21/2008 Water ug/L	B-5W 5/21/2008 Water ug/L	B-5W 5/21/2008 Water ug/L	B-8W 5/21/2008 Water ug/L	B-8W 5/21/2008 Water ug/L	
Units	Metals(TAL)						
Aluminum	3730	10.3	21100	<5	18300	5.1	NS
Antimony	<5	<5	18.6	<5	12.6	<5	3
Arsenic	<10	<10	24.1	<10	<10	<10	25
Barium	918	25.5	1440	31.7	772	29.4	1000
Beryllium	3.1	<1	<1	<1	<1	<1	3
Cadmium	3.7	<3	24	<3	3.5	<3	5
Calcium	225000	56100	126000	321000	1,070,000	132,000	NS
Chromium	113	<5	153	14	96.7	<5	50
Cobalt	205	<5	60.9	<5	47	<5	NS
Copper	235	6	122	11.1	83.4	5.9	200
Lead	737	<3	7050	10.5	74.1	<3	25
Magnesium	42700	12700	17700	6770	98200	17400	35000
Manganese	9100	12.1	1430	<5	8390	242	300
Nickel	160	<5	67.2	7	116	10.1	100
Potassium	9260	3840	10600	5890	16600	7320	NS
Selenium	<10	<10	30	<10	15	<10	10
Silver	<5	<5	<5	<5	<5	<5	50
Sodium	25700	23500	13000	6010	8,320	8,160	20000
Thallium	<10	<10	<10	<10	<10	<10	NS
Vanadium	56.3	<10	77.6	<10	56.4	<10	NS
Zinc	943	<20	11700	24	267	<20	5000
Iron	30300	<5	19800	20.2	20,000	<5	300

# **APPENDICES**

**APPENDIX A**  
**PHOTOGRAPHS**

**PHOTOGRAPHS**  
*1016 – 1026 Washington Avenue, Bronx, New York*



Fig1. Subject Property – Vacant Lot



Fig 2. Soil boring B-1 being installed using a Geoprobe



Fig 3. Location of soil boring B-5



Fig 4. Groundwater sample B-7W being collected from soil boring B-7 location

**APPENDIX B**  
**CHAIN-OF-CUSTODY**

## Field Chain-of-Custody Record

08050686

<b>Company Name</b> EEA, Inc.	<b>Report To:</b> Hardik Parekh hparekh@creanvill.com	<b>Invoice To:</b> EEA, Inc.	<b>Project ID/No.</b> 08718	<b>Samples Collected By (Signature)</b> Sean
		<b>1016-1026 Washington Ave, BROAD</b>		<b>Name (Printed)</b> Sean

Sample No.	Location/ID	Date Sampled	Sample Matrix			ANALYSES REQUESTED	Container Description(s)
			Water	Soil	Air		
1	B-1 0'-2'	5/21/08		✓		EPA#260/82700AN/PCB's/PESTICIDES/ TAL metals <del>PCB's/PESTICIDES</del>	2-Jar
2	B-1 10'-12'	5/21/08		✓		"	"
3	B-2 0'-2'	5/21/08		✓		"	"
4	B-2 10'-12'	5/21/08		✓		"	"
5	B-3 0'-2'	5/21/08		✓		"	"
6	B-3 10'-12'	5/21/08		✓		"	"
7	B-4 0'-2'	5/21/08		✓		"	"
8	B-4 10'-12'	5/21/08		✓		"	"
9	B-5 0'-2'	5/21/08		✓		"	"
10	B-5 10'-12'	5/21/08		✓		"	"

<b>Chain-of-Custody Record</b>	<b>Sample Relinquished by</b> A. Trade	<b>Date/Time</b> 2:07 PM 5-21-08	<b>Sample Received in LAB by</b> N. Raymond Horton	<b>Date/Time</b> 5-21-08 2:07 PM
<b>Bottles Relinquished from Lab by</b>	<b>Sample Relinquished by</b>	<b>Date/Time</b>	<b>Sample Received by</b>	<b>Date/Time</b>
<b>Bottles Received in Field by</b>	<b>Sample Relinquished by</b>	<b>Date/Time</b>	<b>Sample Received in LAB by</b>	<b>Date/Time</b>
<b>Comments/Special Instructions</b> C NYSDET designation (methyl orange preservative) (captain) preservative				
			<b>Turn-Around Time</b> Standard	<b>RUSH(define)</b> FIRM
			<b>5 DAY TAT</b>	

# YORK

ANALYTICAL LABORATORIES, INC.

120 RESEARCH DRIVE STRATFORD, CT 06615  
 TEL (203) 325-1371 FAX (203) 357-0166

## Field Chain-of-Custody Record

08050686

Company Name <i>EPA, Inc</i>	Report To: <i>Hardware Purchase</i>	Invoice To: <i>EPA, Inc</i>	Project ID/No. <i>08718</i>	Samples Collected By (Signature) <i>Sean Markin</i>
			<i>1018-1026 Washington Ave Brock</i>	Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix			ANALYSES REQUESTED	Container Description(s)
			Water	Soil	Air		
11	B-6 0'-2'	5/21/08		✓			EPAS260/8270/DA0/PCBs/Pesticides/ TAL metals
12	B-6 10'-12'	5/21/08		✓			"
13	B-7 0'-2'	5/21/08		✓			"
14	B-7 10'-12'	5/21/08		✓			"
15	B-8 0'-2'	5/21/08		✓			"
16	B-8 10'-12'	5/21/08		✓			"
17	B-3W	5/21/08	✓				EPAS260/8270/DA0/PCBs/Pesticides/ TAL metals (filtered & unfiltered)
18	B-5W	5/21/08	✓				"
19	B-8W	5/21/08	✓				"

<b>Chain-of-Custody Record</b>		05-21-08 2:07		5-21-08 2:07 PM	
Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
		<i>[Signature]</i>		<i>[Signature]</i>	5/21/08 4:10
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time
Comments/Special Instructions					
NYCOEP & parameters (metals analysis filtered & unfiltered for water samples)					
				Standard	RUSH(define) <i>ECR</i>
				Turn-Around Time	<i>3.9</i>
				DAY/TAT	<i>5</i>

**APPENDIX C**  
**LABORATORY REPORTS**

# YORK

ANALYTICAL LABORATORIES, INC.

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## Technical Report

prepared for:

**EEA, Inc**  
55 Hilton Ave  
Garden City, NY 11530  
Attention: Hardik Parekh

Report Date: 5/29/2008

**Re: Client Project ID: 08718 / 1016-1026 Washington Ave., Bronx**  
York Project No.: 08050686

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854



**EEA, Inc**  
 55 Hilton Ave  
 Garden City, NY 11530  
 Attention: Hardik Parekh

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 05/21/08. The project was identified as your project "08718 / 1016-1026 Washington Ave., Bronx".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

## Analysis Results

Client Sample ID			B-1 0'-2'		B-1 10'-12'	
York Sample ID			08050686-01		08050686-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
<b>Pesticides, 8081 List</b>	SW846-3550B/8081	ug/Kg	---	---	---	---
4,4'-DDD			85.2	16.0	Not detected	16.0
4,4'-DDE			137	16.0	Not detected	16.0
4,4'-DDT			413	16.0	Not detected	16.0
Aldrin			Not detected	8.00	Not detected	8.00
alpha-BHC			Not detected	8.00	Not detected	8.00
beta-BHC			Not detected	8.00	Not detected	8.00
Chlordane, Total			366	20.0	Not detected	20.0
delta-BHC			Not detected	8.00	Not detected	8.00
Dieldrin			Not detected	3.30	Not detected	3.30
Endosulfan I			Not detected	8.00	Not detected	8.00
Endosulfan II			Not detected	16.0	Not detected	16.0
Endosulfan sulfate			Not detected	16.0	Not detected	16.0
Endrin			Not detected	16.0	Not detected	16.0
Endrin aldehyde			Not detected	16.0	Not detected	16.0
gamma-BHC (Lindane)			Not detected	8.00	Not detected	8.00
Heptachlor			Not detected	8.00	Not detected	8.00

**YORK**

Client Sample ID			B-1 0'-2'		B-1 10'-12'	
York Sample ID			08050686-01		08050686-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Heptachlor epoxide			Not detected	8.00	Not detected	8.00
Methoxychlor			Not detected	80.0	Not detected	80.0
Toxaphene			Not detected	200	Not detected	200
<b>Volatiles, 8260 List</b>	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
MTBE			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10

**YORK**

Client Sample ID			B-1 0'-2'		B-1 10'-12'	
York Sample ID			08050686-01		08050686-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
<b>Base/Neutral Extractables</b>	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	1700	Not detected	165
1,2-Dichlorobenzene			Not detected	1700	Not detected	165
1,3-Dichlorobenzene			Not detected	1700	Not detected	165
1,4-Dichlorobenzene			Not detected	1700	Not detected	165
2,4-Dinitrotoluene			Not detected	1700	Not detected	165
2,6-Dinitrotoluene			Not detected	1700	Not detected	165
2-Chloronaphthalene			Not detected	1700	Not detected	165
2-Methylnaphthalene			Not detected	1700	Not detected	165
2-Nitroaniline			Not detected	1700	Not detected	165
3,3'-Dichlorobenzidine			Not detected	1700	Not detected	165
3-Nitroaniline			Not detected	1700	Not detected	165
4-Bromophenyl phenyl ether			Not detected	1700	Not detected	165
4-Chloroaniline			Not detected	1700	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	1700	Not detected	165
4-Nitroaniline			Not detected	1700	Not detected	165
Acenaphthene			Not detected	1700	Not detected	165
Acenaphthylene			Not detected	1700	Not detected	165
Anthracene			11000	1700	Not detected	165
Benzo(a)anthracene			7300	1700	Not detected	165
Benzo(a)pyrene			12000	1700	Not detected	165
Benzo(b)fluoranthene			16000	1700	Not detected	165
Benzo(g,h,i)perylene			Not detected	1700	Not detected	165
Benzo(k)fluoranthene			15000	1700	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	1700	Not detected	165
Bis(2-chloroethyl)ether			Not detected	1700	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	1700	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	1700	Not detected	165
Butyl benzyl phthalate			Not detected	1700	Not detected	165
Carbazole			1600	1700	Not detected	165
Chrysene			8400	1700	Not detected	165
Dibenzo(a,h)anthracene			Not detected	1700	Not detected	165
Dibenzofuran			Not detected	1700	Not detected	165
Diethylphthalate			Not detected	1700	Not detected	165
Dimethylphthalate			Not detected	1700	Not detected	165
Di-n-butylphthalate			Not detected	1700	Not detected	165
Di-n-octylphthalate			Not detected	1700	Not detected	165
Fluoranthene			18000	1700	Not detected	165
Fluorene			Not detected	1700	Not detected	165

**YORK**

Client Sample ID			B-1 0'-2'		B-1 10'-12'	
York Sample ID			08050686-01		08050686-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Hexachlorobenzene			Not detected	1700	Not detected	165
Hexachlorobutadiene			Not detected	1700	Not detected	165
Hexachlorocyclopentadiene			Not detected	1700	Not detected	165
Hexachloroethane			Not detected	1700	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	1700	Not detected	165
Isophorone			Not detected	1700	Not detected	165
Naphthalene			Not detected	1700	Not detected	165
Nitrobenzene			Not detected	1700	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	1700	Not detected	165
N-Nitrosodiphenylamine			Not detected	1700	Not detected	165
Phenanthrene			15000	1700	Not detected	165
Pyrene			16000	1700	Not detected	165
<b>PCB</b>	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.017	Not detected	0.017
PCB 1221			Not detected	0.017	Not detected	0.017
PCB 1232			Not detected	0.017	Not detected	0.017
PCB 1242			Not detected	0.017	Not detected	0.017
PCB 1248			Not detected	0.017	Not detected	0.017
PCB 1254			Not detected	0.017	Not detected	0.017
PCB 1260			Not detected	0.017	Not detected	0.017
<b>Metals, Target Analyte List (TAL)</b>	SW846-6010	mg/kg	---	---	---	---
Aluminum			5000	1.00	8360	1.00
Antimony			1.58	1.00	1.02	1.00
Arsenic			5.91	1.00	2.75	1.00
Barium			1970	1.00	59.1	1.00
Beryllium			Not detected	0.500	Not detected	0.500
Cadmium			1.02	0.500	Not detected	0.500
Calcium			55600	2.00	2400	2.00
Chromium			17.5	0.500	21.5	0.500
Cobalt			5.50	1.00	9.09	1.00
Copper			24.5	1.00	23.9	1.00
Iron			7910	1.00	16400	1.00
Lead			1150	1.00	7.99	1.00
Magnesium			7340	2.00	4490	2.00
Manganese			216	1.00	369	1.00
Nickel			9.96	1.00	18.9	1.00
Potassium			1100	3.00	1400	3.00
Selenium			Not detected	1.00	Not detected	1.00
Silver			Not detected	1.00	Not detected	1.00
Sodium			678	5.00	93.5	5.00
Thallium			Not detected	1.00	Not detected	1.00
Vanadium			18.7	2.00	26.7	2.00
Zinc			835	2.00	53.8	2.00
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

**YORK**

Client Sample ID			B-2 0'-2'		B-2 10'-12'	
York Sample ID			08050686-03		08050686-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
<b>Pesticides, 8081 List</b>	SW846-3550B/8081	ug/Kg	---	---	---	---
4,4'-DDD			78.1	16.0	Not detected	16.0
4,4'-DDE			39.7	16.0	70.4	16.0
4,4'-DDT			227	16.0	94.7	16.0
Aldrin			Not detected	8.00	Not detected	8.00
alpha-BHC			Not detected	8.00	Not detected	8.00
beta-BHC			Not detected	8.00	Not detected	8.00
Chlordane, Total			49.6	20.0	66.2	20.0
delta-BHC			Not detected	8.00	Not detected	8.00
Dieldrin			Not detected	3.30	Not detected	3.30
Endosulfan I			Not detected	8.00	Not detected	8.00
Endosulfan II			Not detected	16.0	Not detected	16.0
Endosulfan sulfate			Not detected	16.0	Not detected	16.0
Endrin			Not detected	16.0	Not detected	16.0
Endrin aldehyde			Not detected	16.0	Not detected	16.0
gamma-BHC (Lindane)			Not detected	8.00	Not detected	8.00
Heptachlor			Not detected	8.00	Not detected	8.00
Heptachlor epoxide			Not detected	8.00	Not detected	8.00
Methoxychlor			Not detected	80.0	Not detected	80.0
Toxaphene			Not detected	200	Not detected	200
<b>Volatiles, 8260 List</b>	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10

**YORK**

Client Sample ID			B-2 0'-2'		B-2 10'-12'	
York Sample ID			08050686-03		08050686-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
MTBE			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
<b>Base/Neutral Extractables</b>	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	830	Not detected	165
1,2-Dichlorobenzene			Not detected	830	Not detected	165
1,3-Dichlorobenzene			Not detected	830	Not detected	165
1,4-Dichlorobenzene			Not detected	830	Not detected	165
2,4-Dinitrotoluene			Not detected	830	Not detected	165
2,6-Dinitrotoluene			Not detected	830	Not detected	165
2-Chloronaphthalene			Not detected	830	Not detected	165
2-Methylnaphthalene			Not detected	830	Not detected	165
2-Nitroaniline			Not detected	830	Not detected	165
3,3'-Dichlorobenzidine			Not detected	830	Not detected	165
3-Nitroaniline			Not detected	830	Not detected	165
4-Bromophenyl phenyl ether			Not detected	830	Not detected	165
4-Chloroaniline			Not detected	830	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	830	Not detected	165
4-Nitroaniline			Not detected	830	Not detected	165
Acenaphthene			Not detected	830	Not detected	165
Acenaphthylene			Not detected	830	Not detected	165
Anthracene			2900	830	Not detected	165
Benzo(a)anthracene			2200	830	Not detected	165

**YORK**

Client Sample ID			B-2 0'-2'		B-2 10'-12'	
York Sample ID			08050686-03		08050686-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzo(a)pyrene			3900	830	Not detected	165
Benzo(b)fluoranthene			4700	830	Not detected	165
Benzo(g,h,i)perylene			Not detected	830	Not detected	165
Benzo(k)fluoranthene			4500	830	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	830	Not detected	165
Bis(2-chloroethyl)ether			Not detected	830	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	830	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	830	Not detected	165
Butyl benzyl phthalate			Not detected	830	Not detected	165
Carbazole			Not detected	830	Not detected	165
Chrysene			2100	830	Not detected	165
Dibenzo(a,h)anthracene			Not detected	830	Not detected	165
Dibenzofuran			Not detected	830	Not detected	165
Diethylphthalate			Not detected	830	Not detected	165
Dimethylphthalate			Not detected	830	Not detected	165
Di-n-butylphthalate			Not detected	830	Not detected	165
Di-n-octylphthalate			Not detected	830	Not detected	165
Fluoranthene			5900	830	Not detected	165
Fluorene			Not detected	830	Not detected	165
Hexachlorobenzene			Not detected	830	Not detected	165
Hexachlorobutadiene			Not detected	830	Not detected	165
Hexachlorocyclopentadiene			Not detected	830	Not detected	165
Hexachloroethane			Not detected	830	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	830	Not detected	165
Isophorone			Not detected	830	Not detected	165
Naphthalene			Not detected	830	Not detected	165
Nitrobenzene			Not detected	830	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	830	Not detected	165
N-Nitrosodiphenylamine			Not detected	830	Not detected	165
Phenanthrene			3600	830	Not detected	165
Pyrene			4100	830	Not detected	165
<b>PCB</b>	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.017	Not detected	0.017
PCB 1221			Not detected	0.017	Not detected	0.017
PCB 1232			Not detected	0.017	Not detected	0.017
PCB 1242			Not detected	0.017	Not detected	0.017
PCB 1248			Not detected	0.017	Not detected	0.017
PCB 1254			Not detected	0.017	Not detected	0.017
PCB 1260			Not detected	0.017	Not detected	0.017
<b>Metals, Target Analyte List (TAL)</b>	SW846-6010	mg/kg	---	---	---	---
Aluminum			5450	1.00	7360	1.00
Antimony			Not detected	1.00	Not detected	1.00
Arsenic			4.03	1.00	3.03	1.00
Barium			1050	1.00	279	1.00
Beryllium			Not detected	0.500	Not detected	0.500
Cadmium			0.66	0.500	0.71	0.500
Calcium			37300	2.00	50400	2.00
Chromium			10.7	0.500	12.7	0.500
Cobalt			4.63	1.00	5.46	1.00
Copper			15.8	1.00	26.8	1.00
Iron			9460	1.00	14300	1.00

**YORK**

Client Sample ID			B-2 0'-2'		B-2 10'-12'	
York Sample ID			08050686-03		08050686-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Lead			369	1.00	142	1.00
Magnesium			7670	2.00	9510	2.00
Manganese			263	1.00	234	1.00
Nickel			7.73	1.00	11.4	1.00
Potassium			903	3.00	893	3.00
Selenium			Not detected	1.00	Not detected	1.00
Silver			Not detected	1.00	Not detected	1.00
Sodium			690	5.00	271	5.00
Thallium			Not detected	1.00	Not detected	1.00
Vanadium			15.6	2.00	25.2	2.00
Zinc			586	2.00	247	2.00
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

Client Sample ID			B-3 0'-2'		B-3 10'-12'	
York Sample ID			08050686-05		08050686-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Pesticides, 8081 List	SW846-3550B/8081	ug/Kg	---	---	---	---
4,4'-DDD			Not detected	16.0	Not detected	16.0
4,4'-DDE			Not detected	16.0	Not detected	16.0
4,4'-DDT			Not detected	16.0	Not detected	16.0
Aldrin			Not detected	8.00	Not detected	8.00
alpha-BHC			Not detected	8.00	Not detected	8.00
beta-BHC			Not detected	8.00	Not detected	8.00
Chlordane, Total			Not detected	20.0	Not detected	20.0
delta-BHC			Not detected	8.00	Not detected	8.00
Dieldrin			Not detected	3.30	Not detected	3.30
Endosulfan I			Not detected	8.00	Not detected	8.00
Endosulfan II			Not detected	16.0	Not detected	16.0
Endosulfan sulfate			Not detected	16.0	Not detected	16.0
Endrin			Not detected	16.0	Not detected	16.0
Endrin aldehyde			Not detected	16.0	Not detected	16.0
gamma-BHC (Lindane)			Not detected	8.00	Not detected	8.00
Heptachlor			Not detected	8.00	Not detected	8.00
Heptachlor epoxide			Not detected	8.00	Not detected	8.00
Methoxychlor			Not detected	80.0	Not detected	80.0
Toxaphene			Not detected	200	Not detected	200
Volatiles, 8260 List	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10

**YORK**

Client Sample ID			B-3 0'-2'		B-3 10'-12'	
York Sample ID			08050686-05		08050686-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
MTBE			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
<b>Base/Neutral Extractables</b>	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165

**YORK**

Client Sample ID			B-3 0'-2'		B-3 10'-12'	
York Sample ID			08050686-05		08050686-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165
PCB	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.017	Not detected	0.017
PCB 1221			Not detected	0.017	Not detected	0.017

**YORK**

Client Sample ID			B-3 0'-2'		B-3 10'-12'	
York Sample ID			08050686-05		08050686-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
PCB 1232			Not detected	0.017	Not detected	0.017
PCB 1242			Not detected	0.017	Not detected	0.017
PCB 1248			Not detected	0.017	Not detected	0.017
PCB 1254			Not detected	0.017	Not detected	0.017
PCB 1260			Not detected	0.017	Not detected	0.017
<b>Metals, Target Analyte List (TAL)</b>	SW846-6010	mg/kg	---	---	---	---
Aluminum			13100	1.00	4470	1.00
Antimony			Not detected	1.00	Not detected	1.00
Arsenic			3.90	1.00	2.14	1.00
Barium			67.5	1.00	35.3	1.00
Beryllium			Not detected	0.500	Not detected	0.500
Cadmium			Not detected	0.500	Not detected	0.500
Calcium			1240	2.00	1540	2.00
Chromium			17.3	0.500	13.5	0.500
Cobalt			7.75	1.00	7.82	1.00
Copper			9.83	1.00	23.4	1.00
Iron			19700	1.00	11600	1.00
Lead			12.8	1.00	4.16	1.00
Magnesium			2190	2.00	2070	2.00
Manganese			324	1.00	268	1.00
Nickel			10.2	1.00	12.4	1.00
Potassium			409	3.00	815	3.00
Selenium			Not detected	1.00	Not detected	1.00
Silver			Not detected	1.00	Not detected	1.00
Sodium			38.6	5.00	113	5.00
Thallium			Not detected	1.00	Not detected	1.00
Vanadium			24.2	2.00	26.7	2.00
Zinc			44.7	2.00	31.5	2.00
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

Client Sample ID			B-4 0'-2'		B-4 10'-12'	
York Sample ID			08050686-07		08050686-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
<b>Pesticides, 8081 List</b>	SW846-3550B/8081	ug/Kg	---	---	---	---
4,4'-DDD			19.9	16.0	23.4	16.0
4,4'-DDE			63.8	16.0	62.0	16.0
4,4'-DDT			91.0	16.0	225	16.0
Aldrin			Not detected	8.00	Not detected	8.00
alpha-BHC			Not detected	8.00	Not detected	8.00
beta-BHC			Not detected	8.00	Not detected	8.00
Chlordane, Total			57.0	20.0	85.2	20.0
delta-BHC			Not detected	8.00	Not detected	8.00
Dieldrin			Not detected	3.30	Not detected	3.30
Endosulfan I			Not detected	8.00	Not detected	8.00
Endosulfan II			Not detected	16.0	Not detected	16.0
Endosulfan sulfate			Not detected	16.0	Not detected	16.0
Endrin			Not detected	16.0	Not detected	16.0
Endrin aldehyde			Not detected	16.0	Not detected	16.0

**YORK**

Client Sample ID			B-4 0'-2'		B-4 10'-12'	
York Sample ID			08050686-07		08050686-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
gamma-BHC (Lindane)			Not detected	8.00	Not detected	8.00
Heptachlor			Not detected	8.00	Not detected	8.00
Heptachlor epoxide			Not detected	8.00	Not detected	8.00
Methoxychlor			Not detected	80.0	Not detected	80.0
Toxaphene			Not detected	200	Not detected	200
<b>Volatiles, 8260 List</b>	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
MTBE			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10

**YORK**

Client Sample ID			B-4 0'-2'		B-4 10'-12'	
York Sample ID			08050686-07		08050686-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
<b>Base/Neutral Extractables</b>	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	330	Not detected	165
1,2-Dichlorobenzene			Not detected	330	Not detected	165
1,3-Dichlorobenzene			Not detected	330	Not detected	165
1,4-Dichlorobenzene			Not detected	330	Not detected	165
2,4-Dinitrotoluene			Not detected	330	Not detected	165
2,6-Dinitrotoluene			Not detected	330	Not detected	165
2-Chloronaphthalene			Not detected	330	Not detected	165
2-Methylnaphthalene			Not detected	330	Not detected	165
2-Nitroaniline			Not detected	330	Not detected	165
3,3'-Dichlorobenzidine			Not detected	330	Not detected	165
3-Nitroaniline			Not detected	330	Not detected	165
4-Bromophenyl phenyl ether			Not detected	330	Not detected	165
4-Chloroaniline			Not detected	330	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	330	Not detected	165
4-Nitroaniline			Not detected	330	Not detected	165
Acenaphthene			Not detected	330	Not detected	165
Acenaphthylene			Not detected	330	Not detected	165
Anthracene			590	330	Not detected	165
Benzo(a)anthracene			480	330	Not detected	165
Benzo(a)pyrene			700	330	Not detected	165
Benzo(b)fluoranthene			720	330	Not detected	165
Benzo(g,h,i)perylene			Not detected	330	Not detected	165
Benzo(k)fluoranthene			710	330	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	330	Not detected	165
Bis(2-chloroethyl)ether			Not detected	330	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	330	Not detected	165
Bis(2-ethylhexyl)phthalate			1100	330	Not detected	165
Butyl benzyl phthalate			Not detected	330	Not detected	165
Carbazole			Not detected	330	Not detected	165
Chrysene			480	330	Not detected	165
Dibenzo(a,h)anthracene			Not detected	330	Not detected	165
Dibenzofuran			Not detected	330	Not detected	165
Diethylphthalate			Not detected	330	Not detected	165
Dimethylphthalate			Not detected	330	Not detected	165
Di-n-butylphthalate			Not detected	330	Not detected	165
Di-n-octylphthalate			Not detected	330	Not detected	165

**YORK**

Client Sample ID			B-4 0'-2'		B-4 10'-12'	
York Sample ID			08050686-07		08050686-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Fluoranthene			900	330	Not detected	165
Fluorene			Not detected	330	Not detected	165
Hexachlorobenzene			Not detected	330	Not detected	165
Hexachlorobutadiene			Not detected	330	Not detected	165
Hexachlorocyclopentadiene			Not detected	330	Not detected	165
Hexachloroethane			Not detected	330	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	330	Not detected	165
Isophorone			Not detected	330	Not detected	165
Naphthalene			Not detected	330	Not detected	165
Nitrobenzene			Not detected	330	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	330	Not detected	165
N-Nitrosodiphenylamine			Not detected	330	Not detected	165
Phenanthrene			550	330	Not detected	165
Pyrene			670	330	Not detected	165
<b>PCB</b>	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.017	Not detected	0.017
PCB 1221			Not detected	0.017	Not detected	0.017
PCB 1232			Not detected	0.017	Not detected	0.017
PCB 1242			Not detected	0.017	Not detected	0.017
PCB 1248			Not detected	0.017	Not detected	0.017
PCB 1254			Not detected	0.017	Not detected	0.017
PCB 1260			Not detected	0.017	Not detected	0.017
<b>Metals, Target Analyte List (TAL)</b>	SW846-6010	mg/kg	---	---	---	---
Aluminum			6520	1.00	4220	1.00
Antimony			Not detected	1.00	Not detected	1.00
Arsenic			4.50	1.00	3.33	1.00
Barium			387	1.00	580	1.00
Beryllium			Not detected	0.500	Not detected	0.500
Cadmium			8.85	0.500	4.21	0.500
Calcium			27800	2.00	35100	2.00
Chromium			47.7	0.500	24.1	0.500
Cobalt			6.44	1.00	4.30	1.00
Copper			39.3	1.00	33.5	1.00
Iron			29800	1.00	30100	1.00
Lead			332	1.00	351	1.00
Magnesium			5870	2.00	5170	2.00
Manganese			292	1.00	291	1.00
Nickel			53.5	1.00	25.8	1.00
Potassium			982	3.00	603	3.00
Selenium			Not detected	1.00	Not detected	1.00
Silver			Not detected	1.00	Not detected	1.00
Sodium			346	5.00	305	5.00
Thallium			Not detected	1.00	Not detected	1.00
Vanadium			20.5	2.00	15.2	2.00
Zinc			450	2.00	441	2.00
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

**YORK**

Client Sample ID			B-5 0'-2'		B-5 10'-12'	
York Sample ID			08050686-09		08050686-10	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
<b>Pesticides, 8081 List</b>	SW846-3550B/8081	ug/Kg	---	---	---	---
4,4'-DDD			Not detected	16.0	40.6	16.0
4,4'-DDE			55.5	16.0	31.4	16.0
4,4'-DDT			523	16.0	376	16.0
Aldrin			Not detected	8.00	Not detected	8.00
alpha-BHC			Not detected	8.00	Not detected	8.00
beta-BHC			Not detected	8.00	Not detected	8.00
Chlordane, Total			460	20.0	571	20.0
delta-BHC			Not detected	8.00	Not detected	8.00
Dieldrin			Not detected	3.30	Not detected	3.30
Endosulfan I			Not detected	8.00	Not detected	8.00
Endosulfan II			Not detected	16.0	Not detected	16.0
Endosulfan sulfate			Not detected	16.0	Not detected	16.0
Endrin			Not detected	16.0	Not detected	16.0
Endrin aldehyde			Not detected	16.0	Not detected	16.0
gamma-BHC (Lindane)			Not detected	8.00	Not detected	8.00
Heptachlor			Not detected	8.00	Not detected	8.00
Heptachlor epoxide			Not detected	8.00	Not detected	8.00
Methoxychlor			Not detected	80.0	Not detected	80.0
Toxaphene			Not detected	200	Not detected	200
<b>Volatiles, 8260 List</b>	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10

**YORK**

Client Sample ID			B-5 0'-2'		B-5 10'-12'	
York Sample ID			08050686-09		08050686-10	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
MTBE			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
<b>Base/Neutral Extractables</b>	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	830	Not detected	165
1,2-Dichlorobenzene			Not detected	830	Not detected	165
1,3-Dichlorobenzene			Not detected	830	Not detected	165
1,4-Dichlorobenzene			Not detected	830	Not detected	165
2,4-Dinitrotoluene			Not detected	830	Not detected	165
2,6-Dinitrotoluene			Not detected	830	Not detected	165
2-Chloronaphthalene			Not detected	830	Not detected	165
2-Methylnaphthalene			Not detected	830	Not detected	165
2-Nitroaniline			Not detected	830	Not detected	165
3,3'-Dichlorobenzidine			Not detected	830	Not detected	165
3-Nitroaniline			Not detected	830	Not detected	165
4-Bromophenyl phenyl ether			Not detected	830	Not detected	165
4-Chloroaniline			Not detected	830	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	830	Not detected	165
4-Nitroaniline			Not detected	830	Not detected	165
Acenaphthene			Not detected	830	Not detected	165
Acenaphthylene			Not detected	830	Not detected	165
Anthracene			1300	830	310	165
Benzo(a)anthracene			1400	830	290	165
Benzo(a)pyrene			2200	830	530	165

**YORK**

Client Sample ID			B-5 0'-2'		B-5 10'-12'	
York Sample ID			08050686-09		08050686-10	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzo(b)fluoranthene			2700	830	560	165
Benzo(g,h,i)perylene			Not detected	830	Not detected	165
Benzo(k)fluoranthene			2600	830	540	165
Bis(2-chloroethoxy)methane			Not detected	830	Not detected	165
Bis(2-chloroethyl)ether			Not detected	830	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	830	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	830	Not detected	165
Butyl benzyl phthalate			Not detected	830	Not detected	165
Carbazole			Not detected	830	Not detected	165
Chrysene			2000	830	400	165
Dibenzo(a,h)anthracene			Not detected	830	Not detected	165
Dibenzofuran			Not detected	830	Not detected	165
Diethylphthalate			Not detected	830	Not detected	165
Dimethylphthalate			Not detected	830	Not detected	165
Di-n-butylphthalate			Not detected	830	Not detected	165
Di-n-octylphthalate			Not detected	830	Not detected	165
Fluoranthene			3300	830	620	165
Fluorene			Not detected	830	Not detected	165
Hexachlorobenzene			Not detected	830	Not detected	165
Hexachlorobutadiene			Not detected	830	Not detected	165
Hexachlorocyclopentadiene			Not detected	830	Not detected	165
Hexachloroethane			Not detected	830	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	830	Not detected	165
Isophorone			Not detected	830	Not detected	165
Naphthalene			Not detected	830	Not detected	165
Nitrobenzene			Not detected	830	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	830	Not detected	165
N-Nitrosodiphenylamine			Not detected	830	Not detected	165
Phenanthrene			1400	830	330	165
Pyrene			2200	830	470	165
<b>PCB</b>	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.017	Not detected	0.017
PCB 1221			Not detected	0.017	Not detected	0.017
PCB 1232			Not detected	0.017	Not detected	0.017
PCB 1242			Not detected	0.017	Not detected	0.017
PCB 1248			Not detected	0.017	Not detected	0.017
PCB 1254			Not detected	0.017	Not detected	0.017
PCB 1260			Not detected	0.017	Not detected	0.017
<b>Metals, Target Analyte List (TAL)</b>	SW846-6010	mg/kg	---	---	---	---
Aluminum			6890	1.00	10600	1.00
Antimony			Not detected	1.00	Not detected	1.00
Arsenic			5.35	1.00	3.67	1.00
Barium			2620	1.00	98.6	1.00
Beryllium			Not detected	0.500	Not detected	0.500
Cadmium			1.23	0.500	Not detected	0.500
Calcium			45100	2.00	15700	2.00
Chromium			34.1	0.500	24.2	0.500
Cobalt			6.53	1.00	9.74	1.00
Copper			34.8	1.00	25.4	1.00
Iron			12600	1.00	17700	1.00
Lead			251	1.00	8.13	1.00

**YORK**

Client Sample ID			B-5 0'-2'		B-5 10'-12'	
York Sample ID			08050686-09		08050686-10	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Magnesium			3690	2.00	10700	2.00
Manganese			253	1.00	328	1.00
Nickel			22.2	1.00	20.5	1.00
Potassium			1390	3.00	2800	3.00
Selenium			Not detected	1.00	Not detected	1.00
Silver			Not detected	1.00	Not detected	1.00
Sodium			818	5.00	157	5.00
Thallium			Not detected	1.00	Not detected	1.00
Vanadium			22.2	2.00	28.3	2.00
Zinc			1160	2.00	61.3	2.00
Mercury	SW846-7471	mg/kg	Not detected	0.10	Not detected	0.10

Client Sample ID			B-6 0'-2'		B-6 10'-12'	
York Sample ID			08050686-11		08050686-12	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
<b>Pesticides, 8081 List</b>	SW846-3550B/8081	ug/Kg	---	---	---	---
4,4'-DDD			Not detected	16.0	Not detected	16.0
4,4'-DDE			55.2	16.0	Not detected	16.0
4,4'-DDT			364	16.0	Not detected	16.0
Aldrin			Not detected	8.00	Not detected	8.00
alpha-BHC			Not detected	8.00	Not detected	8.00
beta-BHC			Not detected	8.00	Not detected	8.00
Chlordane, Total			146	20.0	Not detected	20.0
delta-BHC			Not detected	8.00	Not detected	8.00
Dieldrin			Not detected	3.30	Not detected	3.30
Endosulfan I			Not detected	8.00	Not detected	8.00
Endosulfan II			Not detected	16.0	Not detected	16.0
Endosulfan sulfate			Not detected	16.0	Not detected	16.0
Endrin			Not detected	16.0	Not detected	16.0
Endrin aldehyde			Not detected	16.0	Not detected	16.0
gamma-BHC (Lindane)			Not detected	8.00	Not detected	8.00
Heptachlor			Not detected	8.00	Not detected	8.00
Heptachlor epoxide			Not detected	8.00	Not detected	8.00
Methoxychlor			Not detected	80.0	Not detected	80.0
Toxaphene			Not detected	200	Not detected	200
<b>Volatiles, 8260 List</b>	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10

**YORK**

Client Sample ID			B-6 0'-2'		B-6 10'-12'	
York Sample ID			08050686-11		08050686-12	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
MTBE			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
<b>Base/Neutral Extractables</b>	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	330	Not detected	165
1,2-Dichlorobenzene			Not detected	330	Not detected	165
1,3-Dichlorobenzene			Not detected	330	Not detected	165

**YORK**

Client Sample ID			B-6 0'-2'		B-6 10'-12'	
York Sample ID			08050686-11		08050686-12	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,4-Dichlorobenzene			Not detected	330	Not detected	165
2,4-Dinitrotoluene			Not detected	330	Not detected	165
2,6-Dinitrotoluene			Not detected	330	Not detected	165
2-Chloronaphthalene			Not detected	330	Not detected	165
2-Methylnaphthalene			Not detected	330	Not detected	165
2-Nitroaniline			Not detected	330	Not detected	165
3,3'-Dichlorobenzidine			Not detected	330	Not detected	165
3-Nitroaniline			Not detected	330	Not detected	165
4-Bromophenyl phenyl ether			Not detected	330	Not detected	165
4-Chloroaniline			Not detected	330	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	330	Not detected	165
4-Nitroaniline			Not detected	330	Not detected	165
Acenaphthene			Not detected	330	Not detected	165
Acenaphthylene			Not detected	330	Not detected	165
Anthracene			Not detected	330	Not detected	165
Benzo(a)anthracene			Not detected	330	Not detected	165
Benzo(a)pyrene			670	330	Not detected	165
Benzo(b)fluoranthene			710	330	Not detected	165
Benzo(g,h,i)perylene			Not detected	330	Not detected	165
Benzo(k)fluoranthene			700	330	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	330	Not detected	165
Bis(2-chloroethyl)ether			Not detected	330	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	330	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	330	Not detected	165
Butyl benzyl phthalate			Not detected	330	Not detected	165
Carbazole			Not detected	330	Not detected	165
Chrysene			490	330	Not detected	165
Dibenzo(a,h)anthracene			Not detected	330	Not detected	165
Dibenzofuran			Not detected	330	Not detected	165
Diethylphthalate			Not detected	330	Not detected	165
Dimethylphthalate			Not detected	330	Not detected	165
Di-n-butylphthalate			Not detected	330	Not detected	165
Di-n-octylphthalate			Not detected	330	Not detected	165
Fluoranthene			570	330	Not detected	165
Fluorene			Not detected	330	Not detected	165
Hexachlorobenzene			Not detected	330	Not detected	165
Hexachlorobutadiene			Not detected	330	Not detected	165
Hexachlorocyclopentadiene			Not detected	330	Not detected	165
Hexachloroethane			Not detected	330	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	330	Not detected	165
Isophorone			Not detected	330	Not detected	165
Naphthalene			Not detected	330	Not detected	165
Nitrobenzene			Not detected	330	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	330	Not detected	165
N-Nitrosodiphenylamine			Not detected	330	Not detected	165
Phenanthrene			Not detected	330	Not detected	165
Pyrene			520	330	Not detected	165
PCB	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.017	Not detected	0.017
PCB 1221			Not detected	0.017	Not detected	0.017
PCB 1232			Not detected	0.017	Not detected	0.017

**YORK**

Client Sample ID			B-6 0'-2'		B-6 10'-12'	
York Sample ID			08050686-11		08050686-12	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
PCB 1242			Not detected	0.017	Not detected	0.017
PCB 1248			Not detected	0.017	Not detected	0.017
PCB 1254			Not detected	0.017	Not detected	0.017
PCB 1260			Not detected	0.017	Not detected	0.017
<b>Metals, Target Analyte List (TAL)</b>	SW846-6010	mg/kg	---	---	---	---
Aluminum			3940	1.00	11600	1.00
Antimony			1.50	1.00	Not detected	1.00
Arsenic			3.45	1.00	3.46	1.00
Barium			2000	1.00	87.1	1.00
Beryllium			Not detected	0.500	Not detected	0.500
Cadmium			1.06	0.500	0.50	0.500
Calcium			52800	2.00	2780	2.00
Chromium			12.5	0.500	30.6	0.500
Cobalt			3.81	1.00	10.9	1.00
Copper			18.0	1.00	26.7	1.00
Iron			17100	1.00	19600	1.00
Lead			415	1.00	7.75	1.00
Magnesium			3550	2.00	6030	2.00
Manganese			184	1.00	415	1.00
Nickel			7.37	1.00	23.9	1.00
Potassium			667	3.00	2390	3.00
Selenium			Not detected	1.00	Not detected	1.00
Silver			Not detected	1.00	Not detected	1.00
Sodium			536	5.00	101	5.00
Thallium			Not detected	1.00	Not detected	1.00
Vanadium			13.1	2.00	34.3	2.00
Zinc			859	2.00	65.5	2.00
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

Client Sample ID			B-7 0'-2'		B-7 10'-12'	
York Sample ID			08050686-13		08050686-14	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
<b>Pesticides, 8081 List</b>	SW846-3550B/8081	ug/Kg	---	---	---	---
4,4'-DDD			Not detected	16.0	Not detected	16.0
4,4'-DDE			Not detected	16.0	23.3	16.0
4,4'-DDT			22.0	16.0	195	16.0
Aldrin			Not detected	8.00	Not detected	8.00
alpha-BHC			Not detected	8.00	Not detected	8.00
beta-BHC			Not detected	8.00	Not detected	8.00
Chlordane, Total			150	20.0	267	20.0
delta-BHC			Not detected	8.00	Not detected	8.00
Dieldrin			Not detected	3.30	Not detected	3.30
Endosulfan I			Not detected	8.00	Not detected	8.00
Endosulfan II			Not detected	16.0	Not detected	16.0
Endosulfan sulfate			Not detected	16.0	Not detected	16.0
Endrin			Not detected	16.0	Not detected	16.0
Endrin aldehyde			Not detected	16.0	Not detected	16.0
gamma-BHC (Lindane)			Not detected	8.00	Not detected	8.00

**YORK**

Client Sample ID			B-7 0'-2'		B-7 10'-12'	
York Sample ID			08050686-13		08050686-14	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Heptachlor			Not detected	8.00	Not detected	8.00
Heptachlor epoxide			Not detected	8.00	Not detected	8.00
Methoxychlor			Not detected	80.0	Not detected	80.0
Toxaphene			Not detected	200	Not detected	200
<b>Volatiles, 8260 List</b>	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
MTBE			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10

**YORK**

Client Sample ID			B-7 0'-2'		B-7 10'-12'	
York Sample ID			08050686-13		08050686-14	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
<b>Base/Neutral Extractables</b>	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	310	165
Benzo(a)anthracene			Not detected	165	220	165
Benzo(a)pyrene			210	165	440	165
Benzo(b)fluoranthene			250	165	460	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			210	165	450	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	330	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			330	165	560	165

**YORK**

Client Sample ID			B-7 0'-2'		B-7 10'-12'	
York Sample ID			08050686-13		08050686-14	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	330	165
Pyrene			320	165	430	165
<b>PCB</b>	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.017	Not detected	0.017
PCB 1221			Not detected	0.017	Not detected	0.017
PCB 1232			Not detected	0.017	Not detected	0.017
PCB 1242			Not detected	0.017	Not detected	0.017
PCB 1248			Not detected	0.017	Not detected	0.017
PCB 1254			Not detected	0.017	Not detected	0.017
PCB 1260			Not detected	0.017	Not detected	0.017
<b>Metals, Target Analyte List (TAL)</b>	SW846-6010	mg/kg	---	---	---	---
Aluminum			6420	1.00	7490	1.00
Antimony			1.58	1.00	1.39	1.00
Arsenic			3.38	1.00	3.84	1.00
Barium			810	1.00	1050	1.00
Beryllium			Not detected	0.500	Not detected	0.500
Cadmium			0.60	0.500	0.83	0.500
Calcium			38100	2.00	33400	2.00
Chromium			14.6	0.500	19.8	0.500
Cobalt			5.68	1.00	6.52	1.00
Copper			17.1	1.00	18.6	1.00
Iron			9150	1.00	10800	1.00
Lead			184	1.00	341	1.00
Magnesium			3740	2.00	4580	2.00
Manganese			207	1.00	245	1.00
Nickel			10.2	1.00	12.8	1.00
Potassium			929	3.00	1320	3.00
Selenium			Not detected	1.00	Not detected	1.00
Silver			Not detected	1.00	Not detected	1.00
Sodium			409	5.00	415	5.00
Thallium			Not detected	1.00	Not detected	1.00
Vanadium			14.6	2.00	24.0	2.00
Zinc			440	2.00	507	2.00
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

**YORK**

Client Sample ID			B-8 0'-2'		B-8 10'-12'	
York Sample ID			08050686-15		08050686-16	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
<b>Pesticides, 8081 List</b>	SW846-3550B/8081	ug/Kg	---	---	---	---
4,4'-DDD			Not detected	16.0	Not detected	16.0
4,4'-DDE			Not detected	16.0	Not detected	16.0
4,4'-DDT			69.1	16.0	Not detected	16.0
Aldrin			Not detected	8.00	Not detected	8.00
alpha-BHC			Not detected	8.00	Not detected	8.00
beta-BHC			Not detected	8.00	Not detected	8.00
Chlordane, Total			34.8	20.0	Not detected	20.0
delta-BHC			Not detected	8.00	Not detected	8.00
Dieldrin			Not detected	3.30	Not detected	3.30
Endosulfan I			Not detected	8.00	Not detected	8.00
Endosulfan II			Not detected	16.0	Not detected	16.0
Endosulfan sulfate			Not detected	16.0	Not detected	16.0
Endrin			Not detected	16.0	Not detected	16.0
Endrin aldehyde			Not detected	16.0	Not detected	16.0
gamma-BHC (Lindane)			Not detected	8.00	Not detected	8.00
Heptachlor			Not detected	8.00	Not detected	8.00
Heptachlor epoxide			Not detected	8.00	Not detected	8.00
Methoxychlor			Not detected	80.0	Not detected	80.0
Toxaphene			Not detected	200	Not detected	200
<b>Volatiles, 8260 List</b>	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,1-Trichloroethane			Not detected	10	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	10
1,1,2-Trichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethane			Not detected	10	Not detected	10
1,1-Dichloroethylene			Not detected	10	Not detected	10
1,1-Dichloropropylene			Not detected	10	Not detected	10
1,2,3-Trichlorobenzene			Not detected	10	Not detected	10
1,2,3-Trichloropropane			Not detected	10	Not detected	10
1,2,4-Trichlorobenzene			Not detected	10	Not detected	10
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	10
1,2-Dibromoethane			Not detected	10	Not detected	10
1,2-Dichlorobenzene			Not detected	10	Not detected	10
1,2-Dichloroethane			Not detected	10	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	10
1,2-Dichloropropane			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
1,3-Dichlorobenzene			Not detected	10	Not detected	10
1,3-Dichloropropane			Not detected	10	Not detected	10
1,4-Dichlorobenzene			Not detected	10	Not detected	10
2,2-Dichloropropane			Not detected	10	Not detected	10
2-Chlorotoluene			Not detected	10	Not detected	10
4-Chlorotoluene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Bromobenzene			Not detected	10	Not detected	10
Bromochloromethane			Not detected	10	Not detected	10
Bromodichloromethane			Not detected	10	Not detected	10

**YORK**

Client Sample ID			B-8 0'-2'		B-8 10'-12'	
York Sample ID			08050686-15		08050686-16	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromoform			Not detected	10	Not detected	10
Bromomethane			Not detected	10	Not detected	10
Carbon tetrachloride			Not detected	10	Not detected	10
Chlorobenzene			Not detected	10	Not detected	10
Chloroethane			Not detected	10	Not detected	10
Chloroform			Not detected	10	Not detected	10
Chloromethane			Not detected	10	Not detected	10
cis-1,3-Dichloropropylene			Not detected	10	Not detected	10
Dibromochloromethane			Not detected	10	Not detected	10
Dibromomethane			Not detected	10	Not detected	10
Dichlorodifluoromethane			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Hexachlorobutadiene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methylene chloride			Not detected	10	Not detected	10
MTBE			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
Styrene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Tetrachloroethylene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
trans-1,3-Dichloropropylene			Not detected	10	Not detected	10
Trichloroethylene			Not detected	10	Not detected	10
Trichlorofluoromethane			Not detected	10	Not detected	10
Vinyl chloride			Not detected	10	Not detected	10
<b>Base/Neutral Extractables</b>	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165

**YORK**

Client Sample ID			B-8 0'-2'		B-8 10'-12'	
York Sample ID			08050686-15		08050686-16	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165
<b>PCB</b>	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.017	Not detected	0.017
PCB 1221			Not detected	0.017	Not detected	0.017
PCB 1232			Not detected	0.017	Not detected	0.017
PCB 1242			Not detected	0.017	Not detected	0.017
PCB 1248			Not detected	0.017	Not detected	0.017
PCB 1254			Not detected	0.017	Not detected	0.017
PCB 1260			Not detected	0.017	Not detected	0.017
<b>Metals, Target Analyte List (TAL)</b>	SW846-6010	mg/kg	---	---	---	---
Aluminum			7560	1.00	7790	1.00
Antimony			1.22	1.00	Not detected	1.00
Arsenic			3.88	1.00	3.51	1.00
Barium			522	1.00	61.7	1.00
Beryllium			Not detected	0.500	Not detected	0.500
Cadmium			0.61	0.500	Not detected	0.500
Calcium			27900	2.00	13000	2.00
Chromium			21.1	0.500	19.6	0.500
Cobalt			6.52	1.00	7.78	1.00
Copper			24.8	1.00	20.2	1.00
Iron			13100	1.00	14800	1.00

**YORK**

Client Sample ID			B-8 0'-2'		B-8 10'-12'	
York Sample ID			08050686-15		08050686-16	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Lead			198	1.00	5.72	1.00
Magnesium			3170	2.00	8810	2.00
Manganese			261	1.00	285	1.00
Nickel			11.6	1.00	16.9	1.00
Potassium			1020	3.00	1920	3.00
Selenium			Not detected	1.00	Not detected	1.00
Silver			Not detected	1.00	Not detected	1.00
Sodium			368	5.00	124	5.00
Thallium			Not detected	1.00	Not detected	1.00
Vanadium			22.0	2.00	23.2	2.00
Zinc			296	2.00	45.1	2.00
Mercury	SW846-7471	mg/kg	Not detected	0.10	Not detected	0.10

Client Sample ID			B-3W		B-5W	
York Sample ID			08050686-17		08050686-18	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
<b>Pesticides, 8081 List</b>	SW846-3510C/8081	ug/L	---	---	---	---
4,4'-DDD			Not detected	0.0672	Not detected	0.0624
4,4'-DDE			Not detected	0.0672	Not detected	0.0624
4,4'-DDT			Not detected	0.0672	0.264	0.0624
Aldrin			Not detected	0.0336	Not detected	0.0312
alpha-BHC			Not detected	0.0336	Not detected	0.0312
beta-BHC			Not detected	0.0336	Not detected	0.0312
Chlordane			Not detected	0.140	0.373	0.130
delta-BHC			Not detected	0.0336	Not detected	0.0312
Dieldrin			Not detected	0.014	Not detected	0.013
Endosulfan I			Not detected	0.0336	Not detected	0.0312
Endosulfan II			Not detected	0.0672	Not detected	0.0624
Endosulfan sulfate			Not detected	0.0672	Not detected	0.0624
Endrin			Not detected	0.0672	Not detected	0.0624
Endrin aldehyde			Not detected	0.0672	Not detected	0.0624
gamma-BHC (Lindane)			Not detected	0.0336	Not detected	0.0312
Heptachlor			Not detected	0.0336	Not detected	0.0312
Heptachlor epoxide			Not detected	0.0336	Not detected	0.0312
Methoxychlor			Not detected	0.336	Not detected	0.312
Toxaphene			Not detected	1.40	Not detected	1.30
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,1-Dichloropropylene			Not detected	5.0	Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0	Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2,4-Trimethylbenzene			Not detected	5.0	Not detected	5.0

**YORK**

Client Sample ID			B-3W		B-5W	
York Sample ID			08050686-17		08050686-18	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	5.0
1,2-Dibromoethane			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,3-Dichloropropane			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
2,2-Dichloropropane			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzene			Not detected	5.0	Not detected	5.0
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromochloromethane			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	5.0	Not detected	5.0
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	5.0	Not detected	5.0
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Hexachlorobutadiene			Not detected	5.0	Not detected	5.0
Isopropylbenzene			Not detected	5.0	Not detected	5.0
Methylene chloride			Not detected	5.0	Not detected	5.0
MTBE			Not detected	5.0	Not detected	5.0
Naphthalene			Not detected	5.0	Not detected	5.0
n-Butylbenzene			Not detected	5.0	Not detected	5.0
n-Propylbenzene			Not detected	5.0	Not detected	5.0
o-Xylene			Not detected	5.0	Not detected	5.0
p- & m-Xylenes			Not detected	5.0	Not detected	5.0
p-Isopropyltoluene			Not detected	5.0	Not detected	5.0
sec-Butylbenzene			Not detected	5.0	Not detected	5.0
Styrene			Not detected	5.0	Not detected	5.0
tert-Butylbenzene			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	5.0	Not detected	5.0

**YORK**

Client Sample ID			B-3W		B-5W	
York Sample ID			08050686-17		08050686-18	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
<b>Base/Neutral Extractables</b>	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	7.70	Not detected	8.00
1,2-Dichlorobenzene			Not detected	7.70	Not detected	8.00
1,3-Dichlorobenzene			Not detected	7.70	Not detected	8.00
1,4-Dichlorobenzene			Not detected	7.70	Not detected	8.00
2,4-Dinitrotoluene			Not detected	7.70	Not detected	8.00
2,6-Dinitrotoluene			Not detected	7.70	Not detected	8.00
2-Chloronaphthalene			Not detected	7.70	Not detected	8.00
2-Methylnaphthalene			Not detected	7.70	Not detected	8.00
2-Nitroaniline			Not detected	7.70	Not detected	8.00
3,3'-Dichlorobenzidine			Not detected	7.70	Not detected	8.00
3-Nitroaniline			Not detected	7.70	Not detected	8.00
4-Bromophenyl phenyl ether			Not detected	7.70	Not detected	8.00
4-Chloroaniline			Not detected	7.70	Not detected	8.00
4-Chlorophenyl phenyl ether			Not detected	7.70	Not detected	8.00
4-Nitroaniline			Not detected	7.70	Not detected	8.00
Acenaphthene			Not detected	7.70	Not detected	8.00
Acenaphthylene			Not detected	7.70	Not detected	8.00
Anthracene			Not detected	7.70	Not detected	8.00
Benzo(a)anthracene			Not detected	7.70	Not detected	8.00
Benzo(a)pyrene			Not detected	7.70	Not detected	8.00
Benzo(b)fluoranthene			Not detected	7.70	Not detected	8.00
Benzo(g,h,i)perylene			Not detected	7.70	Not detected	8.00
Benzo(k)fluoranthene			Not detected	7.70	Not detected	8.00
Bis(2-chloroethoxy)methane			Not detected	7.70	Not detected	8.00
Bis(2-chloroethyl)ether			Not detected	7.70	Not detected	8.00
Bis(2-chloroisopropyl)ether			Not detected	7.70	Not detected	8.00
Bis(2-ethylhexyl)phthalate			Not detected	7.70	Not detected	8.00
Butyl benzyl phthalate			Not detected	7.70	Not detected	8.00
Carbazole			Not detected	7.70	Not detected	8.00
Chrysene			Not detected	7.70	Not detected	8.00
Dibenzo(a,h)anthracene			Not detected	7.70	Not detected	8.00
Dibenzofuran			Not detected	7.70	Not detected	8.00
Diethylphthalate			Not detected	7.70	Not detected	8.00
Dimethylphthalate			Not detected	7.70	Not detected	8.00
Di-n-butylphthalate			Not detected	7.70	Not detected	8.00
Di-n-octylphthalate			Not detected	7.70	Not detected	8.00
Fluoranthene			Not detected	7.70	Not detected	8.00
Fluorene			Not detected	7.70	Not detected	8.00
Hexachlorobenzene			Not detected	7.70	Not detected	8.00
Hexachlorobutadiene			Not detected	7.70	Not detected	8.00
Hexachlorocyclopentadiene			Not detected	7.70	Not detected	8.00
Hexachloroethane			Not detected	7.70	Not detected	8.00
Indeno(1,2,3-cd)pyrene			Not detected	7.70	Not detected	8.00
Isophorone			Not detected	7.70	Not detected	8.00
Naphthalene			Not detected	7.70	Not detected	8.00
Nitrobenzene			Not detected	7.70	Not detected	8.00
N-Nitrosodi-n-propylamine			Not detected	7.70	Not detected	8.00
N-Nitrosodiphenylamine			Not detected	7.70	Not detected	8.00
Phenanthrene			Not detected	7.70	Not detected	8.00

**YORK**

Client Sample ID			B-3W		B-5W	
York Sample ID			08050686-17		08050686-18	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Pyrene			Not detected	7.70	Not detected	8.00
<b>PCB</b>	SW846-3510C/8082	ug/L	---	---	---	---
PCB 1016			Not detected	0.70	Not detected	0.65
PCB 1221			Not detected	0.70	Not detected	0.65
PCB 1232			Not detected	0.70	Not detected	0.65
PCB 1242			Not detected	0.70	Not detected	0.65
PCB 1248			Not detected	0.70	Not detected	0.65
PCB 1254			Not detected	0.70	Not detected	0.65
PCB 1260			Not detected	0.70	Not detected	0.65
PCB, Total			Not detected	0.70	Not detected	0.65
<b>Metals, Target Analyte List Dissolved</b>	SW846-6010	ug/L	---	---	---	---
Aluminum			10.3	5.0	Not detected	5.0
Antimony			Not detected	5.0	Not detected	5.0
Arsenic			Not detected	10.0	Not detected	10.0
Barium			25.5	10.0	31.7	10.0
Beryllium			Not detected	1.0	Not detected	1.0
Cadmium			Not detected	3.0	Not detected	3.0
Calcium			56100	20.0	321000	20.0
Chromium			Not detected	5.0	14.0	5.0
Cobalt			Not detected	5.0	Not detected	5.0
Copper			6.0	5.0	11.1	5.0
Iron			Not detected	5.0	20.2	5.0
Lead			Not detected	3.0	10.5	3.0
Magnesium			12700	10.0	6770	10.0
Manganese			12.1	5.0	Not detected	5.0
Nickel			Not detected	5.0	7.0	5.0
Potassium			3840	30.0	5890	30.0
Selenium			Not detected	10.0	Not detected	10.0
Silver			Not detected	5.0	Not detected	5.0
Sodium			23500	50.0	6010	50.0
Thallium			Not detected	10.0	Not detected	10.0
Vanadium			Not detected	10.0	Not detected	10.0
Zinc			Not detected	20.0	24.0	20.0
Mercury, Dissolved	SW-846-7470	mg/L	Not detected	0.0002	Not detected	0.0002
<b>Metals, Target Analyte List (TAL)</b>	SW846-6010	ug/L	---	---	---	---
Aluminum			37300	5.0	21100	5.0
Antimony			Not detected	5.0	18.6	5.0
Arsenic			Not detected	10.0	24.1	10.0
Barium			918	10.0	1440	10.0
Beryllium			3.1	1.0	Not detected	1.0
Cadmium			3.7	3.0	24.0	3.0
Calcium			225000	20.0	126000	20.0
Chromium			113	5.0	153	5.0
Cobalt			205	5.0	60.9	5.0
Copper			235	5.0	122	5.0
Iron			30300	5.0	19800	5.0
Lead			737	3.0	7050	3.0
Magnesium			42700	10.0	17700	10.0
Manganese			9100	5.0	1430	5.0
Nickel			160	5.0	67.2	5.0
Potassium			9260	30.0	10600	30.0

**YORK**

Client Sample ID			B-3W		B-5W	
York Sample ID			08050686-17		08050686-18	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Selenium			Not detected	10.0	30.0	10.0
Silver			Not detected	5.0	Not detected	5.0
Sodium			25700	50.0	13000	50.0
Thallium			Not detected	10.0	Not detected	10.0
Vanadium			56.3	10.0	77.6	10.0
Zinc			943	20.0	11700	20.0
Mercury	SW846-7470	mg/L	0.0004	0.0002	Not detected	0.0002

Client Sample ID			B-8W	
York Sample ID			08050686-19	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
<b>Pesticides, 8081 List</b>	SW846-3510C/8081	ug/L	---	---
4,4'-DDD			Not detected	0.158
4,4'-DDE			Not detected	0.158
4,4'-DDT			Not detected	0.158
Aldrin			Not detected	0.0792
alpha-BHC			Not detected	0.0792
beta-BHC			Not detected	0.0792
Chlordane			Not detected	0.330
delta-BHC			Not detected	0.0792
Dieldrin			Not detected	0.033
Endosulfan I			Not detected	0.0792
Endosulfan II			Not detected	0.158
Endosulfan sulfate			Not detected	0.158
Endrin			Not detected	0.158
Endrin aldehyde			Not detected	0.158
gamma-BHC (Lindane)			Not detected	0.0792
Heptachlor			Not detected	0.0792
Heptachlor epoxide			Not detected	0.0792
Methoxychlor			Not detected	0.792
Toxaphene			Not detected	3.30
<b>Volatiles, 8260 List</b>	SW846-8260	ug/L	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0
1,1-Dichloroethane			Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0
1,1-Dichloropropylene			Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0
1,2,4-Trimethylbenzene			Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	5.0
1,2-Dibromoethane			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,2-Dichloroethane			Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0

**YORK**

<b>Client Sample ID</b>			<b>B-8W</b>	
<b>York Sample ID</b>			<b>08050686-19</b>	
<b>Matrix</b>			<b>WATER</b>	
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Results</b>	<b>MDL</b>
1,2-Dichloropropane			Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0
1,3-Dichloropropane			Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0
2,2-Dichloropropane			Not detected	5.0
2-Chlorotoluene			Not detected	5.0
4-Chlorotoluene			Not detected	5.0
Benzene			Not detected	5.0
Bromobenzene			Not detected	5.0
Bromochloromethane			Not detected	5.0
Bromodichloromethane			Not detected	5.0
Bromoform			Not detected	5.0
Bromomethane			Not detected	5.0
Carbon tetrachloride			Not detected	5.0
Chlorobenzene			Not detected	5.0
Chloroethane			Not detected	5.0
Chloroform			Not detected	5.0
Chloromethane			Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0
Dibromochloromethane			Not detected	5.0
Dibromomethane			Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0
Ethylbenzene			Not detected	5.0
Hexachlorobutadiene			Not detected	5.0
Isopropylbenzene			Not detected	5.0
Methylene chloride			Not detected	5.0
MTBE			Not detected	5.0
Naphthalene			Not detected	5.0
n-Butylbenzene			Not detected	5.0
n-Propylbenzene			Not detected	5.0
o-Xylene			Not detected	5.0
p- & m-Xylenes			Not detected	5.0
p-Isopropyltoluene			Not detected	5.0
sec-Butylbenzene			Not detected	5.0
Styrene			Not detected	5.0
tert-Butylbenzene			Not detected	5.0
Tetrachloroethylene			Not detected	5.0
Toluene			Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0
Trichloroethylene			Not detected	5.0
Trichlorofluoromethane			Not detected	5.0
Vinyl chloride			Not detected	5.0
<b>Base/Neutral Extractables</b>	SW846-8270	ug/L	---	---
1,2,4-Trichlorobenzene			Not detected	16.6
1,2-Dichlorobenzene			Not detected	16.6
1,3-Dichlorobenzene			Not detected	16.6
1,4-Dichlorobenzene			Not detected	16.6
2,4-Dinitrotoluene			Not detected	16.6
2,6-Dinitrotoluene			Not detected	16.6
2-Chloronaphthalene			Not detected	16.6

**YORK**

Client Sample ID			B-8W	
York Sample ID			08050686-19	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
2-Methylnaphthalene			Not detected	16.6
2-Nitroaniline			Not detected	16.6
3,3'-Dichlorobenzidine			Not detected	16.6
3-Nitroaniline			Not detected	16.6
4-Bromophenyl phenyl ether			Not detected	16.6
4-Chloroaniline			Not detected	16.6
4-Chlorophenyl phenyl ether			Not detected	16.6
4-Nitroaniline			Not detected	16.6
Acenaphthene			Not detected	16.6
Acenaphthylene			Not detected	16.6
Anthracene			Not detected	16.6
Benzo(a)anthracene			Not detected	16.6
Benzo(a)pyrene			Not detected	16.6
Benzo(b)fluoranthene			Not detected	16.6
Benzo(g,h,i)perylene			Not detected	16.6
Benzo(k)fluoranthene			Not detected	16.6
Bis(2-chloroethoxy)methane			Not detected	16.6
Bis(2-chloroethyl)ether			Not detected	16.6
Bis(2-chloroisopropyl)ether			Not detected	16.6
Bis(2-ethylhexyl)phthalate			Not detected	16.6
Butyl benzyl phthalate			Not detected	16.6
Carbazole			Not detected	16.6
Chrysene			Not detected	16.6
Dibenzo(a,h)anthracene			Not detected	16.6
Dibenzofuran			Not detected	16.6
Diethylphthalate			Not detected	16.6
Dimethylphthalate			Not detected	16.6
Di-n-butylphthalate			Not detected	16.6
Di-n-octylphthalate			Not detected	16.6
Fluoranthene			Not detected	16.6
Fluorene			Not detected	16.6
Hexachlorobenzene			Not detected	16.6
Hexachlorobutadiene			Not detected	16.6
Hexachlorocyclopentadiene			Not detected	16.6
Hexachloroethane			Not detected	16.6
Indeno(1,2,3-cd)pyrene			Not detected	16.6
Isophorone			Not detected	16.6
Naphthalene			Not detected	16.6
Nitrobenzene			Not detected	16.6
N-Nitrosodi-n-propylamine			Not detected	16.6
N-Nitrosodiphenylamine			Not detected	16.6
Phenanthrene			Not detected	16.6
Pyrene			Not detected	16.6
<b>PCB</b>	SW846-3510C/8082	ug/L	---	---
PCB 1016			Not detected	1.6
PCB 1221			Not detected	1.6
PCB 1232			Not detected	1.6
PCB 1242			Not detected	1.6
PCB 1248			Not detected	1.6
PCB 1254			Not detected	1.6
PCB 1260			Not detected	1.6

**YORK**

<b>Client Sample ID</b>			<b>B-8W</b>	
<b>York Sample ID</b>			<b>08050686-19</b>	
<b>Matrix</b>			<b>WATER</b>	
<b>Parameter</b>	<b>Method</b>	<b>Units</b>	<b>Results</b>	<b>MDL</b>
PCB, Total			Not detected	1.6
<b>Metals, Target Analyte List Dissolved</b>	SW846-6010	ug/L	---	---
Aluminum			5.1	5.0
Antimony			Not detected	5.0
Arsenic			Not detected	10.0
Barium			29.4	10.0
Beryllium			Not detected	1.0
Cadmium			Not detected	3.0
Calcium			132000	20.0
Chromium			Not detected	5.0
Cobalt			Not detected	5.0
Copper			5.9	5.0
Iron			Not detected	5.0
Lead			Not detected	3.0
Magnesium			17400	10.0
Manganese			242	5.0
Nickel			10.1	5.0
Potassium			7320	30.0
Selenium			Not detected	10.0
Silver			Not detected	5.0
Sodium			8160	50.0
Thallium			Not detected	10.0
Vanadium			Not detected	10.0
Zinc			Not detected	20.0
Mercury, Dissolved	SW-846-7470	mg/L	Not detected	0.0002
<b>Metals, Target Analyte List (TAL)</b>	SW846-6010	ug/L	---	---
Aluminum			18300	5.0
Antimony			12.6	5.0
Arsenic			Not detected	10.0
Barium			772	10.0
Beryllium			Not detected	1.0
Cadmium			3.5	3.0
Calcium			1070000	20.0
Chromium			96.7	5.0
Cobalt			47.0	5.0
Copper			83.4	5.0
Iron			20000	5.0
Lead			74.1	3.0
Magnesium			98200	10.0
Manganese			8390	5.0
Nickel			116	5.0
Potassium			16600	30.0
Selenium			15.0	10.0
Silver			Not detected	5.0
Sodium			8320	50.0
Thallium			Not detected	10.0
Vanadium			56.4	10.0
Zinc			267	20.0
Mercury	SW846-7470	mg/L	0.0002	0.0002

**Units Key:** For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

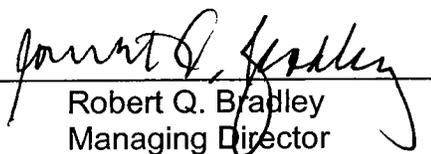
**YORK**

Report Date: 5/29/2008  
Client Project ID: 08718 / 1016-1026 Washington Ave., Bronx  
York Project No.: 08050686

**Notes for York Project No. 08050686**

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By:

  
Robert Q. Bradley  
Managing Director

Date: 5/29/2008

**YORK**

**APPENDIX D**

**SOIL BORING LOGS**

# EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

## SOIL BORING REPORT LOG

DATE: 05/21/08	SHEET 1 OF 8
CLIENT: Jackson Development Corporation	LOCATION ID#
PROJECT LOCATION: 1016-1026 Washington Avenue, Bronx, NY	<b>B-1</b>
REMARKS:	PROJECT# 08718

DRILLING CONTRACTOR: TSDT, INC.		LOGGED BY: SM	DRILLER: PR
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type
TYPE	MACROCORE		Monitor Well Specification
SIZE	2 inch O.D.		
SURFACE ELEVATION: NA		Surface Materials: Grass/Soil	

WATER LEVEL (IN OPEN BOREHOLE): ~ 10 feet

DEPTH (fbg)	SAMPLE	DEPTH	OVA (ppm)	MOISTURE	STRATA	SOIL - ROCK DESCRIPTION - CLASSIFICATION
0	S-1	0'-4'	0.0	Dry		Medium to Fine Tan colored Sand with urban fill materials, i.e. - red brick, cinders and ash, no odor
5	S-2	4'-8'	0.0	Moist		Medium Tan to Brown Sand, Fill Material consisting of cinders, ash and asphalt, no odor
10	S-3*	8'-12'	0.0	Moist		Fine Silt with moderate amounts of medium grained sand, no odor
15						End of soil boring at 12 feet.
20						
25						
30						

\* soil sample collected for laboratory analysis

# EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

## SOIL BORING REPORT LOG

DATE: 05/21/08	SHEET 2 OF 8
CLIENT: Jackson Development Corporation	LOCATION ID#
PROJECT LOCATION: 1016-1026 Washington Avenue, Bronx, NY	<b>B-2</b>
REMARKS:	PROJECT# 08718

DRILLING CONTRACTOR: TSDT, INC.		LOGGED BY: SM	DRILLER: PR
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type
TYPE	MACROCORE		Monitor Well Specification
SIZE	2 inch O.D.		
SURFACE ELEVATION: NA		Surface Materials: Grass/Soil	

DRILL RIG: DRILL METHOD: GEOPROBE LT 54 MACROCORE

WATER LEVEL (IN OPEN BOREHOLE): ~ 10 feet

DEPTH (fbg)	SAMPLE	DEPTH	OVA (ppm)	MOISTURE	STRATA	SOIL - ROCK DESCRIPTION - CLASSIFICATION
0	S-1	0'-4'	0.0	Dry		Tan fine grained Silty Sand, No odor
5	S-2	4'-8'	0.0	Dry		Tan medium grained Silty Sand, No odor
10	S-3*	8'-12'	0.0	Moist		Medium grained Tan Silty Sand with small amounts of medium grained gravel, No staining or odors
15						
20						
25						
30						

\* soil sample collected for laboratory analysis

# EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

## SOIL BORING REPORT LOG

DATE: 05/21/08	SHEET 3 OF 8
CLIENT: Jackson Development Corporation	LOCATION ID#
PROJECT LOCATION: 1016-1026 Washington Avenue, Bronx, NY	<b>B-3/B-3W</b>
REMARKS:	PROJECT# 08718

DRILLING CONTRACTOR: TSDT, INC.		LOGGED BY: SM	DRILLER: PR
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type
TYPE	MACROCORE		Monitor Well Specification
SIZE	2 inch O.D.		
SURFACE ELEVATION: NA		Surface Materials: grass/soil	

DRILL RIG: DRILL METHOD: GEOPROBE LT 54 MACROCORE

WATER LEVEL (IN OPEN BOREHOLE): ~ 10 Feet

DEPTH (fbg)	SAMPLE	DEPTH	OVA (ppm)	MOISTURE	STRATA	SOIL - ROCK DESCRIPTION - CLASSIFICATION
0	S-1	0'-4'	0.0	Dry		Tan fine grained Silty Sand, no odor
5	S-2	4'-8'	0.1	Dry		Tan fine to medium Silty, no odor
10	S-3*	8'-12'	0.1	Dry		Medium grained Tan Silty Sand with small amounts of Medium Gravel, No Staining or Odors, Water table encountered at ~ 10'
15						End of soil boring at 12 feet.
20						
25						
30						

\* soil and groundwater sample collected for laboratory analysis

# EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

## SOIL BORING REPORT LOG

DATE: 05/21/08	SHEET 4 OF 8
CLIENT: Jackson Development Corporation	LOCATION ID#
PROJECT LOCATION: 1016-1026 Washington Avenue, Bronx, NY	<b>B-4</b>
REMARKS:	PROJECT# 08718

DRILLING CONTRACTOR: TSDT, INC.		LOGGED BY SM		DRILLER PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification	DRILL RIG
TYPE	MACROCORE				DRILL METHOD
SIZE	2 inch O.D.				GEOPROBE LT 54 MACROCORE
SURFACE ELEVATION: NA		Surface Materials: grass/soil			

WATER LEVEL (IN OPEN BOREHOLE): ~ 10 Feet

DEPTH (fbg)	SAMPLE	DEPTH	OVA (ppm)	MOISTURE	STRATA	SOIL - ROCK DESCRIPTION - CLASSIFICATION
0	S-1	0'-4'	0.0	Dry		Brown Fine Sand, No staining or odors, Fill Material
5	S-2	4'-8'	0.0	Dry		Brown fine to medium Sand, No staining or odors, Fill material
10	S-3	8'-12'	0.0	Moist		Tan medium Silty Sand, No staining or odors
15						End of soil boring at 12 feet.
20						
25						
30						

\* soil sample collected for laboratory analysis

# EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

## SOIL BORING REPORT LOG

DATE: 05/21/08	SHEET 5 OF 8
CLIENT: Jackson Development Corporation	LOCATION ID#
PROJECT LOCATION: 1016-1026 Washington Avenue, Bronx, NY	<b>B-5/B-5W</b>
REMARKS:	PROJECT# 08718

DRILLING CONTRACTOR: TSDT, INC.		LOGGED BY: SM	DRILLER: PR
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type
TYPE	MACROCORE		Monitor Well Specification
SIZE	2 inch O.D.		
SURFACE ELEVATION: NA		Surface Materials: grass/soil	

DRILL RIG: DRILL METHOD: GEOPROBE LT 54 MACROCORE

WATER LEVEL (IN OPEN BOREHOLE): ~ 10 Feet

DEPTH (fbg)	SAMPLE	DEPTH	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0	S-1	0'-4'	0.0	Dry		Fill Material, i.e. – red brick, asphalt
5	S-2	4'-8'	0.1	Dry		Tan fine Sandy Silt, No Staining or odors
10	S-3*	8'-12'	0.1	Moist		Tan fine Sandy Silt, No Staining or Odors
15						End of soil boring at 12 feet.
20						
25						
30						

\* soil and groundwater sample collected for laboratory analysis

# EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

## SOIL BORING REPORT LOG

DATE: 05/21/08	SHEET 6 OF 8
CLIENT: Jackson Development Corporation	LOCATION ID#
PROJECT LOCATION: 1016-1026 Washington Avenue, Bronx, NY	<b>B-6</b>
REMARKS:	PROJECT# 08718

DRILLING CONTRACTOR: TSDT, INC.		LOGGED BY: SM	DRILLER: PR
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type
TYPE	MACROCORE		Monitor Well Specification
SIZE	2 inch O.D.		
SURFACE ELEVATION: NA		Surface Materials: grass/soil	

DRILL RIG: DRILL METHOD: GEOPROBE LT 54 MACROCORE

WATER LEVEL (IN OPEN BOREHOLE): ~ 10 Feet

DEPTH (fbg)	SAMPLE	DEPTH	OVA (ppm)	MOISTURE	STRATA	SOIL - ROCK DESCRIPTION - CLASSIFICATION
0	S-1	0'-4'	0.0	Dry		Fill Material, i.e. - red brick, asphalt
5	S-2	4'-8'	0.1	Dry		Tan fine Sandy Silt, No Staining or odors
10	S-3*	8'-12'	0.1	Moist		Tan fine Sandy Silt, No Staining or Odors
15						End of soil boring at 12 feet.
20						* soil sample collected for laboratory analysis
25						
30						

# EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

## SOIL BORING REPORT LOG

DATE: 05/21/08	SHEET 7 OF 8
CLIENT: Jackson Development Corporation	LOCATION ID#
PROJECT LOCATION: 1016-1026 Washington Avenue, Bronx, NY	<b>B-7</b>
REMARKS:	PROJECT# 08718

DRILLING CONTRACTOR: TSDT, INC.		LOGGED BY SM		DRILLER PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification	DRILL RIG
TYPE	MACROCORE				DRILL METHOD
SIZE	2 inch O.D.				GEOPROBE LT 54 MACROCORE
SURFACE ELEVATION: NA		Surface Materials: grass/soil			

WATER LEVEL (IN OPEN BOREHOLE): ~ 10 Feet

DEPTH (fbg)	SAMPLE	DEPTH	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0	S-1	0'-4'	0.0	Dry		Tan fine grained Silty Sand, No odor
5	S-2	4'-8'	0.1	Dry		Tan fine grained Silty Sand, No odor
10	S-3*	8'-12'	0.1	Moist		Tan fine Sandy Silt, No Staining or Odors
15						End of soil boring at 12 feet.
20						* soil sample collected for laboratory analysis
25						
30						

# EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

## SOIL BORING REPORT LOG

DATE: 05/21/08	SHEET 8 OF 8
CLIENT: Jackson Development Corporation	LOCATION ID#
PROJECT LOCATION: 1016-1026 Washington Avenue, Bronx, NY	<b>B-8/B-8W</b>
REMARKS:	PROJECT# 08720

DRILLING CONTRACTOR: TSDT, INC.		LOGGED BY SM		DRILLER PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification	DRILL RIG
TYPE	MACROCORE				DRILL METHOD
SIZE	2 inch O.D.				GEOPROBE LT 54 MACROCORE
SURFACE ELEVATION: NA		Surface Materials: grass/soil			

WATER LEVEL (IN OPEN BOREHOLE): ~ 10 Feet

DEPTH (fbg)	SAMPLE	DEPTH	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0	S-1	0'-4'	0.0	Dry		Medium to Fine Tan colored Sand with urban fill materials, i.e. – red brick, cinders and ash, no odor  Tan fine Sandy Silt, No Staining or odors  Tan fine Sandy Silt, No Staining or Odors  End of soil boring at 12 feet.  * soil and groundwater sample collected for laboratory analysis
5	S-2	4'-8'	0.1	Dry		
10	S-3*	8'-12'	0.1	Moist		
15						
20						
25						
30						

**APPENDIX E**

**NYCDEP APPROVAL LETTER**



**DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION**

59-17 Junction Boulevard  
Flushing, New York 11373

**Emily Lloyd  
Commissioner**

Tel. (718) 595-6565  
Fax (718) 595-3525  
[elloyd@dep.nyc.gov](mailto:elloyd@dep.nyc.gov)

**Angela Licata  
Deputy Commissioner**

**Bureau of Environmental  
Planning & Analysis**

Tel. (718) 595-4398  
Fax: (718) 595-4479  
[alicata@dep.nyc.gov](mailto:alicata@dep.nyc.gov)



**DIAL 311** Government Information  
and Services for NYC

April 22, 2008

APR 24 2008

Mr. Hardik Parekh  
Environmental Engineer  
EEA Inc  
55 Hilton Avenue  
Garden City, NY 111530

**Re: 1016-1026 Washington Ave, Bronx  
Hazardous Materials "e" Designation  
Block 2369, Lots 12, 13, 14 & 16  
DEP PROJECT # 08DEPTECH166X**

The New York City Department of Environmental Protection, Bureau of Environmental Planning and Analysis has reviewed the March 2008 Revised Phase II Work Plan and Health and Safety Plan prepared by EEA Inc for the above referenced project on behalf of Jackson Development Group Limited. The applicant proposes to construct a 10-story mix use building, with retail space of approximately 10,184 square feet on the first floor, community space of approximately 12,787 square feet on the second floor and residential units on the rest of the floors. The building will have a cellar which will include a boiler room, a pump room, a gas meter room, an electric room, a janitor room, a laundry room, a tenant storage space and attendant parking for 14 spaces. An "e" designation for Hazardous materials (E118) was placed on the subject parcel by the New York City Department of City Planning as part of the Morrisania Rezoning Action (03DCP046).

The Revised March 2008 Work Plan (WP) proposes to install 8 soil borings and three temporary groundwater wells will be installed. Two soil samples per boring and groundwater samples will be collected. one from 0-2 feet depth and a second at a depth of 10-12 feet or bed rock or ground water, whichever is encountered first. The soil and groundwater samples will be analyzed for Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (USEPA) method 8260, Semi Volatile Organic Compounds (SVOCs) by USEPA method 8270 B/N only), PCBs by USEPA method 8081, Pesticides by EPA method 8082 and Total Analyte List (TAL) Metals.

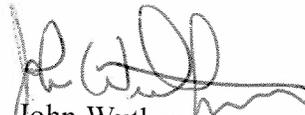
Based on the review of the submitted documentation, DEP has the following comment/recommendation:

- A detailed report summarizing the investigative findings, description of impacted soil, boring logs, updated site map depicting soil boring locations, summary of analytical results with correlating NYSDEC TAGM Memo # 4046 guidance levels and TOGS Ambient Water quality standards and remedial recommendations should be submitted to the DEP

for review and approval.

Future correspondence and submittals should include the following tracking number **08DEPTECH166X**. If you have any questions or comments, please contact Mr. Mohammad Khaja-Moinuddin at (718) 595-4445.

Sincerely,



John Wuthenow  
Director  
Site Assessment

XC : G. Heath; M. Khaja-Moinuddin; File



**AIR CANISTER SAMPLING DATA SHEET**

**SITE NAME: 1016 Washington Avenue**  
**STREET ADDRESS : 1016 Washington Ave., Bronx, NY**

<b>Sample Date:</b>	11/10/11	<b>BES Job # :</b>	11BR205
<b>Field ID# and Depth:</b>	SV-1 (9')	<b>Sampled By:</b>	Duane Shinton
<b>Canister#</b>	2095	<b>Size of Canister:</b>	6 Liter
<b>Regulator#</b>	a0070633-6	<b>Sample Type:</b>	Soil Vapor

**Sampling Information**

<b><u>AMBIENT OUTDOOR READINGS</u></b>		
	Temperature (F)	Barometric Pressure (inches of Hg)
Start	63	30.1
Stop	66	30.3

<b><u>INTERIOR TEMPERATURE</u></b> <b><u>(F)</u></b>	
Start	Not Applicable
Stop	Not Applicable

<b><u>CANISTER PRESSURE</u></b> <b><u>(inches of Hg)</u></b>	
Start	-30
Stop	-2

<b><u>SAMPLING TIME</u></b> <b><u>(24-hour-clock)</u></b>	
Start	1112
Stop	1416
Total Elapsed Sampling Time: 3 Hours, 4 Minutes	

  
 FAE Duane Shinton  
 Geologist

**AIR CANISTER SAMPLING DATA SHEET**

**SITE NAME: 1016 Washington Avenue**  
**STREET ADDRESS : 1016 Washington Ave., Bronx, NY**

<b>Sample Date:</b>	11/10/11	<b>BES Job # :</b>	11BR205
<b>Field ID# and Depth:</b>	SV-2 (4')	<b>Sampled By:</b>	Duane Shinton
<b>Canister#</b>	3007	<b>Size of Canister:</b>	6 Liter
<b>Regulator#</b>	a0070622-3	<b>Sample Type:</b>	Soil Vapor

**Sampling Information**

<b><u>AMBIENT OUTDOOR READINGS</u></b>		
	Temperature (F)	Barometric Pressure (inches of Hg)
Start	64	30.2
Stop	66	30.3

<b><u>INTERIOR TEMPERATURE</u></b>	
<b><u>(F)</u></b>	
Start	Not Applicable
Stop	Not Applicable

<b><u>CANISTER PRESSURE</u></b>	
<b><u>(inches of Hg)</u></b>	
Start	-30
Stop	-2

<b><u>SAMPLING TIME</u></b>	
<b><u>(24-hour-clock)</u></b>	
Start	1130
Stop	1438
Total Elapsed Sampling Time: 3 Hours, 8 Minutes	

  
 (KAC) Duane Shinton  
 Geologist

**AIR CANISTER SAMPLING DATA SHEET**

**SITE NAME: 1016 Washington Avenue**  
**STREET ADDRESS : 1016 Washington Ave., Bronx, NY**

<b>Sample Date:</b>	11/10/11	<b>BES Job # :</b>	11BR205
<b>Field ID# and Depth:</b>	SV-3 (9')	<b>Sampled By:</b>	Duane Shinton
<b>Canister#</b>	3815	<b>Size of Canister:</b>	6 Liter
<b>Regulator#</b>	7342536	<b>Sample Type:</b>	Soil Vapor

**Sampling Information**

<b><u>AMBIENT OUTDOOR READINGS</u></b>		
	Temperature (F)	Barometric Pressure (inches of Hg)
Start	64	30.2
Stop	66	30.3

<b><u>INTERIOR TEMPERATURE</u></b> <b><u>(F)</u></b>	
Start	Not Applicable
Stop	Not Applicable

<b><u>CANISTER PRESSURE</u></b> <b><u>(inches of Hg)</u></b>	
Start	-27
Stop	-2

<b><u>SAMPLING TIME</u></b> <b><u>(24-hour-clock)</u></b>	
Start	1142
Stop	1419
Total Elapsed Sampling Time: 2 Hours, 37 Minutes	

  
 KAG Duane Shinton  
 Geologist



**Integrated Analytical Labs**  
 273 Franklin Rd  
 Randolph, NJ 07869

**External Chain of Custody Record/  
 Field Test Data Sheet  
 USEPA Method TO-15**

Contact Us: 973 361-4252  
 fax: 973 366-5613  
 Web: www.ialonline.com

Client Contact Information		Project Information		Carrier (check one):		Client Courier		FedEx		of		COCs															
Company: <i>Point Carbon</i>		Project Name: <i>1011 Westchester Ave</i>		Carrier: <input checked="" type="checkbox"/> IAL Courier		Client Courier		FedEx		of		COCs															
Address: <i>1903 Atlantic Ave</i>		Project Manager: <i>Greg Hume</i>		Carrier: <input type="checkbox"/> Other		Client Courier		FedEx		of		COCs															
City/State/Zip: <i>Providence, RI</i>		PM Signature: <i>[Signature]</i>		Carrier: <input type="checkbox"/> Other		Client Courier		FedEx		of		COCs															
Phone: <i>732-223-2225</i>		PM E-Mail: <i>ghume@pointcarbon.com</i>		Carrier: <input type="checkbox"/> Other		Client Courier		FedEx		of		COCs															
Fax: <i>732-223-3111</i>		Sampler: <i>Diane Shindler</i>		Carrier: <input type="checkbox"/> Other		Client Courier		FedEx		of		COCs															
Analysis Turnaround Time- IF NO TAT IS SPECIFIED, 2 WEEK TAT IS ASSUMED		Results needed by: _____		Carrier: <input type="checkbox"/> Other		Client Courier		FedEx		of		COCs															
Standard: 2 weeks (10 business days)		Rush (Specify Lab-Approved TAT): _____		Carrier: <input type="checkbox"/> Other		Client Courier		FedEx		of		COCs															
Sample Identification	Start DATE & TIME (24 Hr Clock / Military Time)	End DATE & TIME (24 Hr Clock / Military Time)	Starting Canister Pressure in Field ("Hg)	Ending Canister Pressure in Field ("Hg)	Sampling Time (min)	Ending Temp ("F)	Outgoing Canister Pressure in Lab ("Hg)	Incoming Canister Pressure in Lab ("Hg)	Flow Controller Readout (cc/min)	Flow Controller ID	Canister ID	Start	Stop	EPA TO - 15	Library Search (Specify 10, 20, or 30 TICs)	Other (Explain Below)	NJDEP Regulatory Data Package	NJDEP Reduced Data Package (LLTO-15 Only)	NYSDEC / DOH Data Package	Other Data Package Type (Explain Below)	Results Only (No Data Package)	Indoor / Ambient Air	Soil Gas / Sub or Near Slab	Stack Emissions			
<i>SV-1</i>	<i>11/20/11 11:12</i>	<i>11/20/11 14:11</i>	<i>-30</i>	<i>-7</i>	<i>63</i>	<i>66</i>	<i>3000706237 3007</i>	<i>3000706237 3005</i>	<i>6</i>	<i>3000706237 3005</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
<i>SV-2</i>	<i>11/20/11 14:20</i>	<i>11/20/11 16:27</i>	<i>-30</i>	<i>-2</i>	<i>64</i>	<i>66</i>	<i>3000706237 3007</i>	<i>3000706237 3007</i>	<i>6</i>	<i>3000706237 3007</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>			
<i>SV-3</i>	<i>11/20/11 16:57</i>	<i>11/20/11 18:14</i>	<i>-27</i>	<i>-2</i>	<i>64</i>	<i>66</i>	<i>3000706237 3007</i>	<i>3000706237 3007</i>	<i>6</i>	<i>3000706237 3007</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>			
<p><b>Comments / Special Analysis Instructions / QC Requirements:</b></p> <p><b>Note:</b> Hold or contingent samples may be designated by writing an "H" or "C" in the appropriate analysis method box. If additional analysis instructions are necessary, please use the "Comments" section</p>																											
<p><b>Shipping Information / Canister Preparation (for laboratory use only)</b></p> <p>Individual Preparing Canisters / Title: <i>Joseph Walukiewicz / Air Department Sample Custodian</i></p> <p>Lab Affixed Seal Number(s): _____</p> <p>Date/Time Shipping Container Sealed: _____</p>														<p><b>Laboratory Canister Certification</b></p> <p>GC/MS Analyst Signature: _____</p>													
<p><b>External Chain of Custody</b></p> <p>Relinquished: <i>[Signature]</i> Time/Date: <i>10:05 / 11/11/11</i></p> <p>Received: <i>[Signature]</i> Time/Date: _____</p> <p>Individual Resealing Shipping Container Name: _____</p> <p>Time/Date Sample Shipping Container Resealed: _____</p> <p>Time/Date Sample Shipping Container Opened: _____</p> <p>Time/Date Internal Chain of Custody Initiated: _____</p> <p>Individual Opening Sample Shipping Container: <i>Joseph Walukiewicz</i></p> <p>NJDEP Affixed Seal Number: _____</p> <p>Title: _____</p> <p>Reason for Change of External Custody shipment from laboratory to client: _____</p>																											
<p><b>White and yellow - lab copies; Pink - client copy</b></p>																											

Use appropriate care with IAL sampling equipment when sampling and packing for shipment. The client is responsible for all damage incurred to IAL equipment. Notify IAL if equipment is damaged upon receipt. Holding time before sampling is 15 days, after sampling is 30 days; failure to follow these times may result in data rejection by regulatory agencies. The lab will contact you if your COC is not clear, incomplete, or if discrepancies exist. The use of initials is not permitted on the COC except when correcting errors.



**BRINKERHOFF ENVIRONMENTAL SERVICES, INC.**  
[www.brinkenv.com](http://www.brinkenv.com)

**1805 Atlantic Avenue  
Manasquan, New Jersey 08736  
TEL: 732-223-2225 FAX: 732-223-3666**

**133 Jackson Road, Suite D  
Medford, New Jersey 08055  
TEL: 609-714-2141 FAX: 609-714-2143**