

**82 THROOP AVENUE  
BROOKLYN, NEW YORK**

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# **Remedial Action Report**

**NYC VCP Number: 13CVCP147K**

**Prepared for:**

Throop Wallabout Realty, LLC  
505 Flushing Avenue, Suite 1D  
Brooklyn, NY 11205

**Prepared by:**

***EBC***

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**APRIL 2015**

# REMEDIAL ACTION REPORT

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## LIST OF ACRONYMS

Acronym	Definition
CAMP	Community Air Monitoring Plan
DER-10	NYS DEC Division of Environmental Remediation Technical Guidance Manual 10
EC	Engineering Control
HASP	Health and Safety Plan
IC	Institutional Control
NYC VCP	New York City Voluntary Cleanup Program
NYC DEP	New York City Department of Environmental Protection
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
ORC	Oxygen Release Compound
PID	Photoionization Detector
QA/QC	Quality Assurance/Quality Control
QEP	Qualified Environmental Professional
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan
SCG	Standards, Criteria and Guidance
SCO	Soil Cleanup Objective
SMMP	Soil/Materials Management Plan
SMP	Site Management Plan
SVOCs	Semi-Volatile Organic Compounds
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

## CERTIFICATION

I, Ariel Czemerinski, am currently a registered professional engineer licensed by the State of New York. I performed professional engineering services and had primary direct responsibility for implementation of the remedial program for the Redevelopment Project located at 82 Throop Avenue in Brooklyn, New York, Site Number 13CVCP147K. I certify to the following:

- I have reviewed this document, to which my signature and seal are affixed.
- I certify that the passive Sub-Slab Depressurization System (SSDS) was designed by me or under my supervision and installed in a manner that will achieve the goal of the Remedial Action Work Plan (RAWP) to prevent soil vapor intrusion and provide protection of public health for the occupants of the building.
- The OER-approved Remedial Action Work Plan dated June 2013 and Stipulations in a letter dated June 18, 2013, were implemented and that all requirements in those documents have been substantively complied with. I certify that contaminated soil, fill, liquids or other material from the property were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.

Ariel Czemerinski

Name

076508

PE License Number

Signature

4/27/2015

DATE



## EXECUTIVE SUMMARY

Throop Wallabout Realty, LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a property located at 82 Throop Avenue in Williamsburg section of Brooklyn, New York. A Remedial Investigation (RI) was performed to compile and evaluate data and information necessary to develop a Remedial Action Work Plan (RAWP). A remedial action was performed pursuant to an OER-approved RAWP in a manner that has rendered the Site protective of public health and the environment consistent with the proposed use of the property. This RAR describes the remedial action performed under the RAWP. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

### Site Location and Prior Usage

The Site is located at 82 Throop Avenue in the Williamsburg section of Brooklyn, New York, and is identified as Block 2266 and Lot 34 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 2,548-square feet and is bounded by Block 2266 Lot 32 (vacant land) to the north, Gerry Street and Block 2269 Lot 27 (vacant land) to the south, Throop Avenue and Block 2267 Lot 7501 (multi-story mixed residential/commercial building) to the east, and Block 2266 Lot 36 (vacant land) to the west. A map of the site boundary is shown in Figure 2.

Prior to redevelopment, the Site was a vacant lot surrounded by an 8 foot high chain link fence. The vacant lot was uncapped, and overgrown with weeds.

### Summary of Proposed Redevelopment Plan

The proposed future use of the Site consisted of one 4-story apartment building. The current zoning designation for the Site is R7A. R7A is a contextual district that allows residential and community facility buildings. The proposed use is consistent with existing zoning for the property.

The 25.48 ft wide tax lot is being developed with a residential four-story masonry building with a full cellar level. The building extends approximately 85 feet from front to rear. Therefore, the gross building square footage for the building is 10,829 ft<sup>2</sup>. There is a rear cellar level walk-out

court yard behind the building, that extends from the rear of the building to the rear property line. The concrete slab of the cellar is approximately 6 feet 4 inches below sidewalk level. The street front portion of the cellar consists of a boiler room, gas meter room, electric meter room and a large open cellar area. The remaining portions of the cellar will be used for residential and accessory residential space.

The apartment building consists of three residential units. Unit 1 consists of the cellar level and first floor, Unit 2 is the second floor and Unit 3 is the third and fourth floors.

Excavation for each new building and rear cellar-level courtyard extends to a depth of approximately 8 feet below grade for construction of the buildings' cellar levels and foundations. Assuming an excavation volume of approximately 25 feet (wide) by 100 feet long (length) and 8 feet (deep), a total of approximately 740 cubic yards (1,000 tons) of soil was planned for excavation. The rear cellar level court yard is capped with concrete.

### **Summary of Past Uses of Site and Environmental Findings**

Historical information (DOB records, Sanborn Maps and City Directory listings) reviewed for the Site identified the Site as being developed prior to 1887 with two small residential structures. Between 1887 and 1904, one of the small residential buildings was replaced with a 4-story apartment building with a first floor store and the small residential building behind the 4-story apartment building converted the first floor space into two small stores. The 1st floor of the 4-story apartment building was utilized as a grocery store from the 1940's to the 1970's. In the early 1980's, both buildings were demolished. The Site has remained undeveloped since, but the property was used for lumber storage until approximately 2003. The Site appears to have been unused since 2003.

The AOCs identified for this Site include:

- Historic fill layer is present at the site from grade to depths as great as 3 feet below grade.

### **Summary of Environmental Findings**

1. Elevation of the property ranges is approximately 14 feet.
2. Depth to groundwater ranges from 10.03 to 12.34 feet at the Site.
3. Groundwater flow is generally from south to north beneath the Site.

4. Depth to bedrock is at the Site is greater than 100 feet.
5. The stratigraphy of the Site, from the surface down, consists of 3 feet of historic fill underlain by a native brown silty sand.
6. Soil/fill samples collected during the RI showed no detectable concentrations of VOCs. Six SVOCs including benzo(a)anthracene (max. of 3,300 µg/Kg), benzo(a)pyrene (max. of 2,900 µg/Kg), benzo(b)fluoranthene (max. of 4,300 µg/Kg), benzo-(k)fluoranthene (max. of 1,600 µg/Kg), chrysene (max. of 3,500 µg/Kg), and indeno(1,2,3-cd)pyrene (max. of 1,100 µg/Kg) were detected above their respective Restricted Residential SCOs within all shallow soil samples. The SVOCs detected above Unrestricted/Restricted Residential SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Three pesticides 4,4'-DDE (34 µg/Kg), 4,4'-DDT (max. of 140 µg/Kg), and dieldrin (11 µg/Kg) were detected above Unrestricted Use SCOs. One pesticide, 4,4'-DDD (3.6 µg/Kg), was detected in one deep soil sample (SB2). All pesticide concentrations were well below Restricted Residential SCOs. One PCB, PCB-1260, was detected above Unrestricted Use SCOs at a maximum concentration of 130 µg/Kg. Five metals including barium (max. of 642 µg/Kg), copper (max. of 97.7 µg/Kg), lead (max. of 967 µg/Kg), mercury (max. of 1.15 µg/Kg) and zinc (max. of 537 µg/Kg) exceeded Unrestricted Use SCOs in all three shallow soil samples. Of these metals, barium, lead, and mercury also exceeded Restricted Residential SCOs. Zinc was detected in one deep soil sample, above Unrestricted Use SCOs at a concentration of 190 µg/Kg. No VOCs, SVOCs, PCBs, or pesticides were detected above Unrestricted Use SCOs within the deep soil samples collected at the Site. Overall, the findings were unremarkable and consistent with observations for historical fill sites in areas throughout NYC.
7. Groundwater samples collected during the RI showed the presence of three VOCs above GQs within one of the monitoring wells and included cis-1,2-dichloroethene (350 µg/L), tetrachloroethene (21 µg/L), and trichloroethene (31 µg/L). No VOCs were identified in any of the soil samples collected on Site and are not associated with known historical uses of the property. Several SVOCs were detected in one or more of the three monitoring wells, but only five of the SVOCs including benzo(a)anthracene, benzo(b)fluoranthene, benzo-(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene

were detected at a concentration above GQS. One pesticide, 4,4'-DDT, was detected slightly above GQS at a concentration of 0.15 µg/L. PCBs were not detected. The metals including iron, lead (36 µg/L), magnesium, manganese, and sodium were detected above their respective GQS in one or more dissolved groundwater samples.

8. Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at low concentrations. Tetrachloroethylene (max. of 2.17 µg/m<sup>3</sup>), trichloroethylene (max. of 1.88 µg/m<sup>3</sup>), and carbon tetrachloride (max. of 0.566 µg/m<sup>3</sup>) were detected in all three soil vapor samples. 1,1,1-trichloroethane was detected in one of the three samples at a concentration of 1.14 µg/m<sup>3</sup>. The PCE, TCE, carbon tetrachloride, and 1,1,1-TCA concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Overall the highest reported concentrations were for acetone (maximum of 2,610 µg/m<sup>3</sup>) and ethanol (maximum of 1,520 µg/m<sup>3</sup>).

### **Summary of the Remedial Action**

The remedial action achieved protection of public health and the environment for the intended use of the property. The remedial action achieved all of the remedial action objectives established for the project and addressed applicable standards, criterion, and guidance; was effective in both the short-term and long-term and reduced mobility, toxicity and volume of contaminants; was cost effective and implementable; and used standards methods that are well established in the industry.

A Remedial Investigation (RI) was performed in May of 2013 and a RI Report dated June 2013 was prepared to evaluate data and information necessary to develop a Remedial Action Work Plan (RAWP). A Site Contact List was established and a RAWP dated June 2013 was prepared and released with a Fact Sheet on June 14, 2013, for a 30-day public comment period. The RAWP with a Stipulation List dated June 18, 2013, was approved by the New York City Office of Environmental Remediation (OER) on July 21, 2013. A pre-construction meeting was held on July 29, 2013, and remedial action began in August of 2013 and completed in October of 2013.

1. Prepared a Community Protection Statement and implemented a Citizen Participation Plan.

2. Performed a Community Air Monitoring Program for particulates and volatile organic carbon compounds.
3. Established Track 1 Soil Cleanup Objectives (SCOs). Excavation and removal of soil/fill exceeding Unrestricted Use SCOs and achieved Track 1 SCOs for soil.
4. Collected and analyzed end-point samples to determine the performance of the remedy with respect to attainment of SCOs.
5. As part of development, installed a passive sub-slab depressurization system.
6. As part of development, installed a vapor barrier system beneath the building slab and behind foundation walls.
7. Imported of materials to be used for backfill in compliance with this plan and in accordance with applicable laws and regulations.
8. Transported and disposed off-Site of all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Collected, sampled and analyzed samples representative of excavated media as required by disposal facilities. Appropriately segregated excavated media on Site.
9. Screened excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID.
10. Implemented storm-water pollution prevention measures in compliance with applicable laws and regulations.
11. Performed all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.
12. Submitted a RAR that: certifies that the remedial requirements have been achieved; defines the Site boundaries; and describes the remedial activities including any changes from the RAWP.

# REMEDIAL ACTION REPORT

## 1.0 SITE BACKGROUND

Throop Wallabout Realty LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a property located at 82 Throop Avenue in the Williamsburg section of Brooklyn, New York. The boundary of the property subject to this Remedial Action is shown in Figure 2 and includes, in its entirety, Brooklyn Block 2266 and Lot 27. The Remedial Action was performed pursuant to the OER-approved RAWP in a manner that has rendered the property protective of public health and the environment consistent with its intended use. This RAR describes the remedial action performed under the RAWP. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

### 1.1 Site Location and Prior Usage

The Site is located at 82 Throop Avenue in the Williamsburg section of Brooklyn, New York, and is identified as Block 2266 and Lot 34 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 2,548-square feet and is bounded by Block 2266 Lot 32 (vacant land) to the north, Gerry Street and Block 2269 Lot 27 (vacant land) to the south, Throop Avenue and Block 2267 Lot 7501 (multi-story mixed residential/commercial building) to the east, and Block 2266 Lot 36 (vacant land) to the west. A map of the site boundary is shown in Figure 2.

Prior to redevelopment, the Site was a vacant lot surrounded by an 8 foot high chain link fence. The vacant lot was uncapped, and overgrown with weeds.

### 1.2 Proposed Redevelopment Plan

The proposed future use of the Site consisted of one 4-story apartment building. The current zoning designation for the Site is R7A. R7A is a contextual district that allows residential and community facility buildings. The proposed use is consistent with existing zoning for the property.

The 25.48 ft wide tax lot is being developed with a residential four-story masonry building with a full cellar level. The building extends approximately 85 feet from front to rear. Therefore, the

gross building square footage for the building is 10,829 ft<sup>2</sup>. There is a rear cellar level walk-out court yard behind the building, that extends from the rear of the building to the rear property line. The concrete slab of the cellar is approximately 6 feet 4 inches below sidewalk level. The street front portion of the cellar consists of a boiler room, gas meter room, electric meter room and a large open cellar area. The remaining portions of the cellar will be used for residential and accessory residential space.

The apartment building consists of three residential units. Unit 1 consists of the cellar level and first floor, Unit 2 is the second floor and Unit 3 is the third and fourth floors.

Excavation for each new building and rear cellar-level courtyard extends to a depth of approximately 8 feet below grade for construction of the buildings' cellar levels and foundations. Assuming an excavation volume of approximately 25 feet (wide) by 100 feet long (length) and 8 feet (deep), a total of approximately 740 cubic yards (1,000 tons) of soil was planned for excavation. The rear cellar level court yard is capped with concrete.

### 1.3 Description of Surrounding Property

The area surrounding the Site consists of a mix of residential and industrial properties. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. No hospitals, daycare facilities or schools are located within a 250 ft radius of the Site.

#### Surrounding Property Usage

Direction	Property Description
North – Adjacent property	<u>Block 2266, Lots 30, 31 and 32</u> (74-76 Throop Avenue) – Lots 30 and 31 are developed with 1-story industrial buildings. Lot 32 is a vacant uncapped lot.
South – Opposite side of Gerry Street	<u>Block 2269, Lot 27</u> (84 Throop Avenue) – A 25ft by 70ft lot located on the corner of Throop Avenue and Gerry Street. The lot is undeveloped, vacant and uncapped.
East – Opposite side of Throop Avenue	<u>Block 2267, Lot 7501</u> (133 Gerry Street) – Developed with 4-story mixed residential and commercial building.
West – Adjacent property	<u>Block 2266, Lot 36</u> (99 Gerry Street) – A 25ft by 100ft lot located that fronts Gerry Street. The lot is undeveloped, vacant and uncapped.

## 1.4 Remedial Investigation

A remedial investigation was performed and the results are documented in a document called “*Remedial Investigation Report, 82 Throop Avenue*”, dated June 2013 (Appendix A).

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

Historical information (DOB records, Sanborn Maps and City Directory listings) reviewed for the Site identified the Site as being developed with a two small residential structures prior to 1887. Between 1887 and 1904, one of the small residential buildings was replaced with a 4-story apartment building with a first floor store and the small residential building behind the 4-story apartment building converted the first floor space into two small stores. The 1st floor of the 4-story apartment building was utilized as a grocery store from the 1940's to the 1970's. In the early 1980's, the both buildings were demolished. The Site has remained undeveloped since, but the property was used for lumber storage until approximately 2003. The Site appears to have been unused since 2003.

The AOCs identified for this Site include:

- Historic fill layer is present at the site from grade to depths as great as 3 feet below grade.

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

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed three soil borings across the entire project Site, and collected six soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and
4. Installed three soil vapor probes across the Site and collected three samples for chemical analysis.

## Summary of Environmental Findings

1. Elevation of the property is approximately 14 feet.
2. Depth to groundwater ranges from 10.03 to 12.34 feet at the Site.
3. Groundwater flow is generally from south to north beneath the Site.
4. Depth to bedrock is at the Site is greater than 100 feet.
5. The stratigraphy of the Site, from the surface down, consists of 3 feet of historic fill underlain by native brown silty sand.
6. Soil/fill samples collected during the RI showed no detectable concentrations of VOCs. Six SVOCs including benzo(a)anthracene (max. of 3,300  $\mu\text{g}/\text{Kg}$ ), benzo(a)pyrene (max. of 2,900  $\mu\text{g}/\text{Kg}$ ), benzo(b)fluoranthene (max. of 4,300  $\mu\text{g}/\text{Kg}$ ), benzo-(k)fluoranthene (max. of 1,600  $\mu\text{g}/\text{Kg}$ ), chrysene (max. of 3,500  $\mu\text{g}/\text{Kg}$ ), and indeno(1,2,3-cd)pyrene (max. of 1,100  $\mu\text{g}/\text{Kg}$ ) were detected above their respective Restricted Residential SCOs within all shallow soil samples. The SVOCs detected above Unrestricted/Restricted Residential SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Three pesticides 4,4'-DDE (34  $\mu\text{g}/\text{Kg}$ ), 4,4'-DDT (max. of 140  $\mu\text{g}/\text{Kg}$ ), and dieldrin (11  $\mu\text{g}/\text{Kg}$ ) were detected above Unrestricted Use SCOs. One pesticide, 4,4'-DDD (3.6  $\mu\text{g}/\text{Kg}$ ), was detected in one deep soil sample (SB2). All pesticide concentrations were well below Restricted Residential SCOs. One PCB, PCB-1260, was detected above Unrestricted Use SCOs at a maximum concentration of 130  $\mu\text{g}/\text{Kg}$ . Five metals including barium (max. of 642  $\mu\text{g}/\text{Kg}$ ), copper (max. of 97.7  $\mu\text{g}/\text{Kg}$ ), lead (max. of 967  $\mu\text{g}/\text{Kg}$ ), mercury (max. of 1.15  $\mu\text{g}/\text{Kg}$ ) and zinc (max. of 537  $\mu\text{g}/\text{Kg}$ ) exceeded Unrestricted Use SCOs in all three shallow soil samples. Of these metals, barium, lead, and mercury also exceeded Restricted Residential SCOs. Zinc was detected in one deep soil sample, above Unrestricted Use SCOs at a concentration of 190  $\mu\text{g}/\text{Kg}$ . No VOCs, SVOCs, PCBs, or pesticides were detected above Unrestricted Use SCOs within the deep soil samples collected at the Site. Overall, the findings were unremarkable and consistent with observations for historical fill sites in areas throughout NYC.
7. Groundwater samples collected during the RI showed the presence of three VOCs above GQSs within one of the monitoring wells and included cis-1,2-dichloroethene (350  $\mu\text{g}/\text{L}$ ), tetrachloroethene (21  $\mu\text{g}/\text{L}$ ), and trichloroethene (31  $\mu\text{g}/\text{L}$ ). No VOCs were identified in

any of the soil samples collected on Site and are not associated with known historical uses of the property. Several SVOCs were detected in one or more of the three monitoring wells, but only five of the SVOCs including benzo(a)anthracene, benzo(b)fluoranthene, benzo-(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were detected at a concentration above GQS. One pesticide, 4,4'-DDT, was detected slightly above GQS at a concentration of 0.15 µg/L. PCBs were not detected. The metals including iron, lead (36 µg/L), magnesium, manganese, and sodium were detected above their respective GQS in one or more dissolved groundwater samples.

8. Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at low to moderate concentrations. Tetrachloroethylene (max. of 2.17 µg/m<sup>3</sup>), trichloroethylene (max. of 1.88 µg/m<sup>3</sup>), and carbon tetrachloride (max. of 0.566 µg/m<sup>3</sup>) were detected in all three soil vapor samples. 1,1,1-trichloroethane was detected in one of the three samples at a concentration of 1.14 µg/m<sup>3</sup>. The PCE, TCE, carbon tetrachloride, and 1,1,1-TCA concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Overall the highest reported concentrations were for acetone (maximum of 2,610 µg/m<sup>3</sup>) and ethanol (maximum of 1,520 µg/m<sup>3</sup>).

For more detailed results, consult the RIR. Based on an evaluation of the data and information from the RIR (Appendix A) and the RAWP (Appendix B), disposal of significant amounts of hazardous waste was not suspected at this Site.

## 2.0 DESCRIPTION OF REMEDIAL ACTIONS

The remedial action was performed in accordance with an OER approved Remedial Action Work Plan (Appendix B) and achieved the remedial action objectives established for the project. The remedial action was evaluated in an alternatives analysis and was determined to be protective of human health and the environment, compliant with standards, criteria, and guidelines (SCGs), effective in the short-term, effective in the long-term, capable of attaining appropriate levels of reduction of toxicity, mobility, or volume of contaminated material, implementable, cost effective, acceptable to the community, consistent with land uses, and sustainable.

A summary of the milestones achieved in the Remedial Action is as follows: A Remedial Investigation (RI) was performed in May of 2013 and a RI Report dated June 2013 (Appendix A) was prepared to evaluate data and information necessary to develop a Remedial Action Work Plan (RAWP) (Appendix B). A Site Contact List was established and a RAWP dated June 2013 was prepared and released with a Fact Sheet on June 14, 2013, for a 30-day public comment period. The RAWP with a Stipulation List dated June 18, 2013, was approved by the New York City Office of Environmental Remediation (OER) on July 21, 2013. A pre-construction meeting was held on July 29, 2013, and remedial action began in August of 2013 and completed in October of 2013.

The remedial action consisted of the following tasks:

1. Prepared a Community Protection Statement and implemented a Citizen Participation Plan.
2. Performed a Community Air Monitoring Program for particulates and volatile organic carbon compounds.
3. Established Track 1 Soil Cleanup Objectives (SCOs). Excavation and removal of soil/fill exceeding Unrestricted Use SCOs and achieved Track 1 SCOs for soil.
4. Collected and analyzed end-point samples to determine the performance of the remedy with respect to attainment of SCOs.
5. As part of development, installed a passive sub-slab depressurization system.

6. As part of development, installed a vapor barrier system beneath the building slab and behind foundation walls.
7. Imported of materials to be used for backfill in compliance with this plan and in accordance with applicable laws and regulations.
8. Transported and disposed off-Site of all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Collected, sampled and analyzed samples representative of excavated media as required by disposal facilities. Appropriately segregated excavated media on Site.
9. Screened excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID.
10. Implemented storm-water pollution prevention measures in compliance with applicable laws and regulations.
11. Performed all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.
12. Submitted a RAR that: certifies that the remedial requirements have been achieved; defines the Site boundaries; and describes the remedial activities including any changes from the RAWP.

### **3.0 COMPLIANCE WITH REMEDIAL ACTION WORK PLAN**

#### **3.1 Construction Health & Safety Plan (CHASP)**

The remedial construction activities performed under this program were in compliance with the Construction Health and Safety Plan and applicable laws and regulations. The Site Safety Coordinator was Kevin Waters - EBC.

#### **3.2 Community Air Monitoring Plan (CAMP)**

The Community Air Monitoring Plan provided for the collection and analysis of air samples during remedial construction activities to ensure proper protections were employed to protect workers and the neighboring community. Monitoring was performed in compliance with the Community Air Monitoring Plan in the approved RAWP. The results of Community Air monitoring are shown in Appendix E.

#### **3.3 Soil/Materials Management Plan**

The Soil/Materials Management Plan in the RAWP provided detailed plans for managing all soils/materials that were disturbed at the Site, including excavation, handling, storage, transport and disposal. It also included a series of controls to assure effective, nuisance free remedial activity in compliance with applicable laws and regulations. Remedial construction activities performed under this program were in full compliance with the SMMP in the approved RAWP.

#### **3.4 Storm-Water Pollution Prevention**

Storm water pollution prevention included physical methods and processes to control and/or divert surface water flows and to limit the potential for erosion and migration of Site soils, via wind or water. Remedial construction activities performed under this program were in full compliance with methods and processes defined in the RAWP for storm water prevention and applicable laws and regulations.

#### **3.5 Deviations From the Remedial Action Work Plan**

No significant deviations from the Remedial Action Work Plan occurred during implementation of the Remedial Action Work Plan.

## **4.0 REMEDIAL PROGRAM**

### **4.1 Project Organization**

The PE responsible for implementation of the remedial action for this project was Ariel Czmerinski P.E., AMC Engineering. On-Site air monitoring in accordance with the CHASP and CAMP, soil screening and soil sampling was performed by either Dominick Mosca, Kevin Brussee and Kevin Waters of EBC or Sara Babyatsky of AMC Engineering. The Qualified Environmental Professional which implemented the remedial action was Kevin Brussee, Project Manager-EBC.

The excavation and foundation contractor was All Island Masonry and Concrete, and the developer was HSD Construction, LLC.

### **4.2 Site Controls**

#### ***Site Preparation***

Plans for the new building (NYC DOB Job number NB-320761733) were approved on July 30, 20, 2013. Waste characterization soil sampling was performed on June 10, 2013, prior to mobilization to obtain soil disposal approval and to minimize the need for on-Site soil stockpiles. On August 2, 2013, equipment was mobilized to the Site to begin excavation of on-Site soil.

#### ***Soil Screening***

All intrusive soil excavation activities were overseen by an EBC qualified environmental professional (QEP). In addition to extensive sampling and chemical testing of soils on the Site, excavated soil was screened continuously using hand-held instruments, by sight, and by smell to ensure proper material handling and management, and community protection. Excavation at the Site commenced with the removal of historic fill which varied in depth across the Site. EBC visually determined the boundary of historic fill and native soil. Historic fill at the Site was a darker brown soil with brick and concrete fragments, and clean native soil was a fine brown sandy silt. A 1,500-gallon underground storage tank was removed the front of the Site. The tank did not appear to have leaked, but EBC noted the same grey stained soil with a petroleum odor associated with the spill (NYSDEC Spill No. 1215332) from the adjacent Site to the west (78-80 Throop Avenue). EBC discussed the situation with the NYSDEC project manager and it was

determined that a second NYSDEC spill number was not required. The 2-3 foot thick smear zone of petroleum contaminated soil at the groundwater interface spread across the front half of the Site. Following the removal of petroleum impacted soil, and petroleum contaminated groundwater, EBC field screened all remaining soil at the Site to ensure complete removal of petroleum contaminated soil. No elevated PID readings, physical or olfactory evidence of petroleum contaminated soil was present following excavation and off-Site disposal of the petroleum contaminated smear zone was performed.

### ***Stockpile Management***

For the majority of the project, soil was excavated from the ground and live loaded into trucks to eliminate the need for stockpiling. However, any soil stockpiles that were generated and kept overnight were covered with 6-mil poly-sheeting to prevent dust and minimize odors. Stockpile covers were inspected by the EBC QEP.

### ***Truck Inspection***

A stabilized construction entrance was constructed at the front of the Site, which exited and entered from Throop Avenue. The stabilized entrance was constructed of a bed of crushed concrete which was sloped back toward the interior of the Site. The stabilized entrance was inspected on a daily basis during soil loading activities and reinforced as needed with additional concrete material to prevent the accumulation of ruts, mud or soil and to minimize the potential for impacted soil to be dispersed beyond the Site boundary. Before exiting the Site, trucks were examined for evidence of contaminated soil on the undercarriage, body, and wheels. If soil/debris was observed, it was removed utilizing brooms or shovels.

### ***Site Security***

An 8-ft high construction fence was constructed around the perimeter of the property. The fence was locked with a chain and padlock during non-working hours/days.

### ***Nuisance Controls***

No petroleum or other odors were detected during removal of the historic fill layer. Petroleum contaminated soil was encountered at the groundwater interface, but because the soil was excessively wet, odors were minimal. On-site soil screening did not detect any excessive PID

readings and no complaints were reported. Dust and odor was minimized by excavating and live-loading directly into trucks, and covering stockpiles with 6-mil poly sheeting overnight during off-work hours.

### ***Reporting***

Daily status reports were prepared and forwarded to the OER project manager for construction days in which soil disturbance activities were performed (soil excavation/loading). A copy of each of the daily status reports is included in Appendix F.

Digital photographs of the remedial action are included in Appendix D.

### **4.3 Materials Excavation and Removal**

Historic Fill was encountered across the Site from grade to a depth ranging from 3 to 4 ft below grade. The waste characterization results indicated the soil was classified as non-hazardous. Excavation and removal of the non-hazardous historic fill material across the entire Site was performed in August to October of 2013.

#### ***4.3.1 Tank Removals***

On August 5, 2013, a 1,500-gallon underground storage tank was encountered in the front of 82 Throop Avenue. All Boro Tank Testing cut and cleaned the UST on August 6<sup>th</sup> and 7<sup>th</sup> of 2013. The approximate location of the underground storage tank is shown on Figure 5. A copy of the NYFD Tank Removal Affidavit filed by All Boro Tank Testing is attached in Appendix K. The tank was inspected by EBC, and no holes/penetrations were observed within the tank. However, approximately 2 feet below the bottom of the tank, EBC noted petroleum contaminated soil (grey stained with odor) and groundwater within the excavation contained a thin film of free floating product. EBC suspects the petroleum contaminated soil and groundwater encountered on the Site was associated with NYSDEC Spill Number 1215332 for 78-80 Throop Avenue (adjacent property to the north). After speaking with the NYSDEC, an additional NYSDEC Spill Number was not required. Closure of the NYSDEC Spill Number 1215332 was completed independent of OER approved RAP and under NYSDEC authority.

#### *4.3.2 Petroleum Contamination Removal*

A 2-3 foot thick smear zone of petroleum contaminated soil extended across the front half of the Site. Excavation for the new buildings's cellar level only required excavation to a depth of approximately 7 feet below grade, but an additional 2 to 3 feet of petroleum contaminated soil was excavated across the Site to remove all petroleum contaminated soil at the Site. A total of 1,210.78 tons of soil was removed and transported to Clean Earth of Carteret. A map showing the location where excavations were performed is shown in Figure 5. No material was reused on-Site.

Due to over excavation into the groundwater table, groundwater was exposed within the excavation. Floating product on the groundwater surface was skimmed off via pump truck by All Boro Tank Testing on September 7<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> of 2013. A total of approximately 950-gallons of oil/water was removed from the excavation and from the tank on September 7<sup>th</sup>, 1,950 gallons were removed on September 11, 2013, and an additional 3,950 gallons were removed on September 12, 2013. The oil/water was properly disposed off-Site at Clean Water of New York, located at 3249 Richmond Terrace Boulevard, Staten Island, New York. A copy of each of the manifests is attached in Appendix L.

#### *4.3.3 End Point Sample Results*

Following over-excavation to remove the 2-3ft smear zone of petroleum impacted soil, EBC collected five endpoint soil samples and one duplicate endpoint soil sample. The location of each of the endpoint soil samples is shown on Figure 5. Dedicated disposable sampling equipment was utilized to collect each endpoint sample, eliminating the need for field equipment (rinsate) blanks.

The endpoint soil samples were appropriately packaged, placed in a cooler and picked up by laboratory courier for transport to the analytical laboratory. The samples were containerized in laboratory provided glassware and shipped in plastic coolers preserved utilizing ice or “cold-paks” to maintain a temperature of 4°C.

Endpoint samples EP1, EP2, EP3, EP4 and EP5 and the duplicate were submitted to Phoenix Environmental Laboratories, Inc. located at 587 East Middle Turnpike, in Manchester, CT 06040

(NYS ELAP Certification No. 11301) for laboratory analysis utilizing the following methodology:

- Volatile organic compounds by EPA Method 8260;
- Semi-volatile organic compounds by EPA Method 8270;
- Target Analyte List metals; and
- Pesticides/PCBs by EPA Method 8081/8082.

A copy of each of the laboratory reports for the endpoint soil samples is attached in Appendix G. A tabular and map summary of end-point sampling results is included in Tables 1 through 4 and Figure 6, respectively. As shown in Tables 1 through 4, no VOCs, SVOCs, pesticides, PCBs or metals were detected above Unrestricted Use or Groundwater Protection SCOs.

#### **4.4 Materials Disposal**

Waste characterization soil sampling was performed on June 10, 2013. Historic fill (brown silty sand with brick, concrete, and wood) was encountered from grade to a depth of approximately 3 to 4 feet below grade, and petroleum contaminated soil was encountered across the front half of the Site to a depth of approximately 8 feet. EBC formed one 5-pt composite soil sample from 5 test pits excavated at the Site to a depth of approximately 8 feet below grade. The laboratory results, profile form and a formal letter describing the sampling process and material type, was forwarded to Clean Earth to obtain soil disposal approval at Clean Earth of Carteret for the historic fill material. A copy of the soil disposal request letter with the sampling plan and laboratory results is attached in Appendix H. A copy of the soil disposal acceptance letter issued by Clean Earth is attached in Appendix I.

From August 2, 2013, to October 16, 2013, a total 1,210.78 tons of soil was excavated and loaded into 10-wheel dump trucks for transport to Clean Earth of Carteret. Copies of each of the non-hazardous manifests and associated scale tickets are included in Appendix J.

The volume/tonnage and destination of material removed and disposed off-Site is presented below:

**Table 6 - Disposal Quantities and Disposal Facilities**

<b>Destination</b>	<b>Type of Material</b>	<b>Quantity</b>
Clean Earth of Carteret - Carteret, NJ	Historic Fill and Petroleum Contaminated Soil	1,210.78 tons

#### **4.5 Backfill Import**

On September 17th and 18th, 2013, 4 truck loads (approximately 80 tons) of 3/4 inch crushed concrete (RCA) was imported for use beneath the cellar slab from Evergreen Recycling of Corona, Inc. located at 127-50 Northern Boulevard, Flushing, New York 11368. Evergreen Recycling of Corona, Inc. is a NYSDEC Active Registered C&D Debris Processing Facility. The crushed concrete was spread across the entire basement area to a depth of approximately 8 to 12 inches. No other backfill was imported to the Site. A copy of the import trucking tickets and source invoices for the RCA is attached in Appendix M.

## 5.0 ENGINEERING CONTROLS

A Track 1 Remedial Action was achieved and Engineering Controls are not required. However, as part of construction, several protective systems were installed. These are:

### Composite Cover System

The Composite Cover System consists of an 18-inch thick concrete mat slab underlain by 8-12 inches of RCA subgrade across the entire footprint of the building, and a 4-inch thick concrete slab underlain by 2-4 inches of RCA subgrade within the rear yard. Photographs of construction of the Composite Cover System are included in Appendix B. The composite cover system was installed by All Island Masonry and Concrete.

### Vapor Barrier

As part of development, migration of soil vapor from potential offsite sources is mitigated with a combination of building slab and vapor barrier. A high density polyethylene vapor barrier liner (HPDE) was installed over the SSDS prior to pouring the building's concrete slab. The vapor barrier consists of Raven Industries' VaporBlock Plus 20, which is a seven-layer co-extruded 20 mil vapor barrier made from polyethylene and EVOH resins. The vapor barrier extends throughout the area occupied by the footprint of the new building and extends upward behind the side and front walls of the building. All vapor barrier seams, penetrations, and repairs were sealed utilizing the tape method, in accordance with to the manufacturer's installation instructions. Photos of the vapor barrier being installed are included in Appendix B and the approximate layout is shown on Figure 7. The vapor barrier was installed by the foundation contractor, All Island Masonry and Concrete.

### Passive Sub-Slab Depressurization System

Migration of soil vapor is mitigated with a passive sub-slab depressurization system. The SSDS installed beneath the basement slab of the buildings (total of 3,250 sf) consists of a single venting zone (loop) in accordance with USEPA sub-slab depressurization design specifications which recommend a separate vent loop for every 4,000 sf of slab area. The venting zone is constructed of a continuous loop of perforated 4-inch HDPE smooth interior pipe fitted with a filter sock and installed within the 8-12" layer of crushed concrete installed below the concrete building slab. A horizontal pipe connected to the loop extends to the rear of the building where it connects to a 6-

inch schedule 40 pvc riser pipes that extend to the roof to discharge. The riser pipe discharge vent is located a minimum of 10 feet from windows and ventilation inlets.

The approximate layout of the SSDS piping is shown on Figure 7 and photos of the SSDS piping being installed are included in Appendix B. The passive SSDS was installed by HSD Construction, LLC.

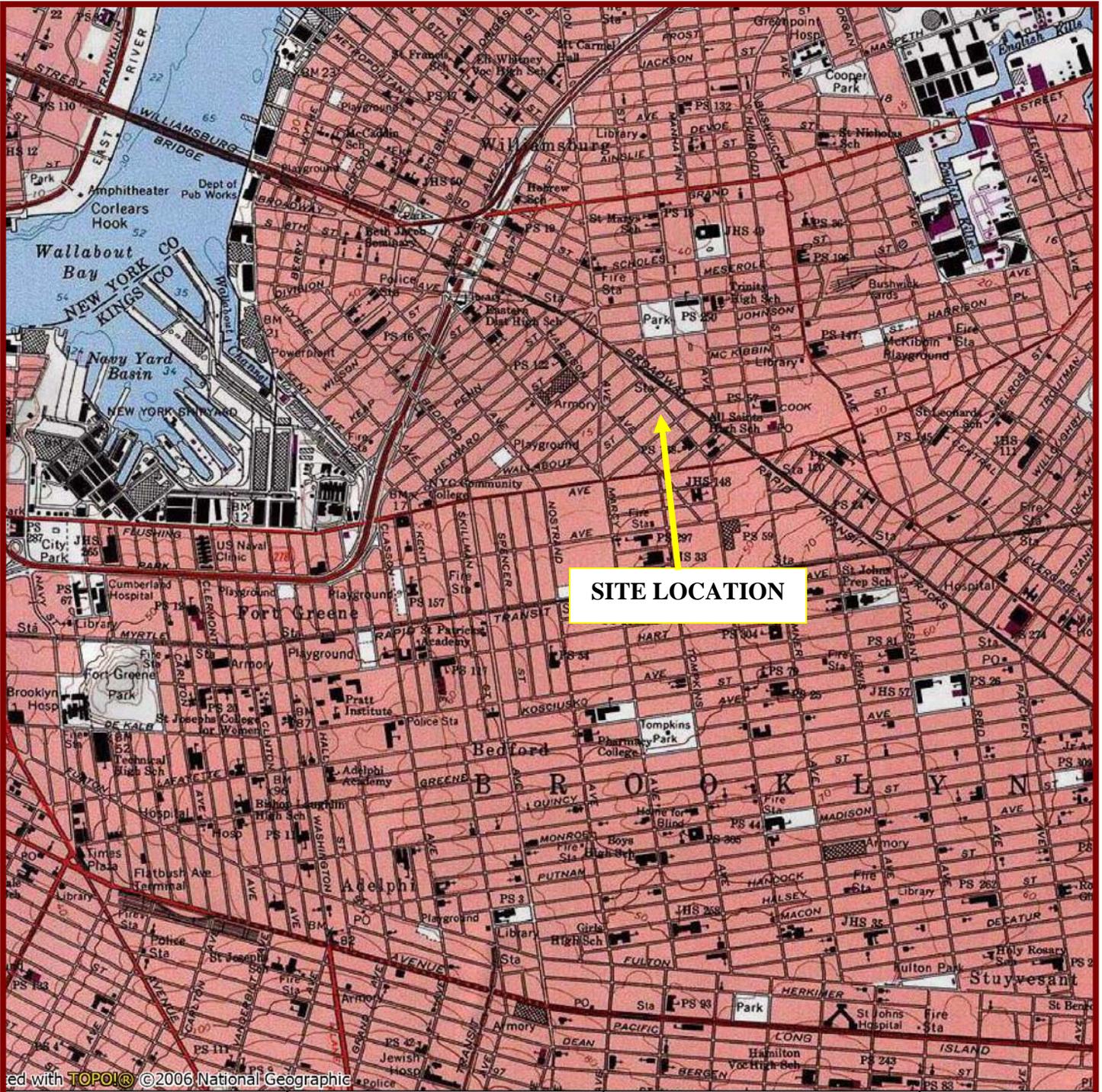
## **6.0 INSTITUTIONAL CONTROLS**

A Track 1 Remedial Action was achieved, therefore Institutional Controls are not required for this project.

## **7.0 SITE MANAGEMENT PLAN**

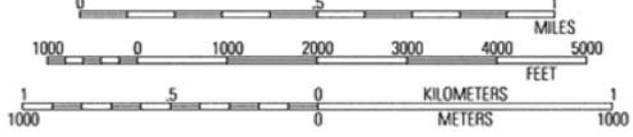
A Track 1 Remedial Action was achieved and Site Management is not required.

# **FIGURES**



**SITE LOCATION**

73°58.00' W      73°58.000' W      73°57.000' W      WGS84 73°56.000' W



**ENVIRONMENTAL BUSINESS CONSULTANTS**

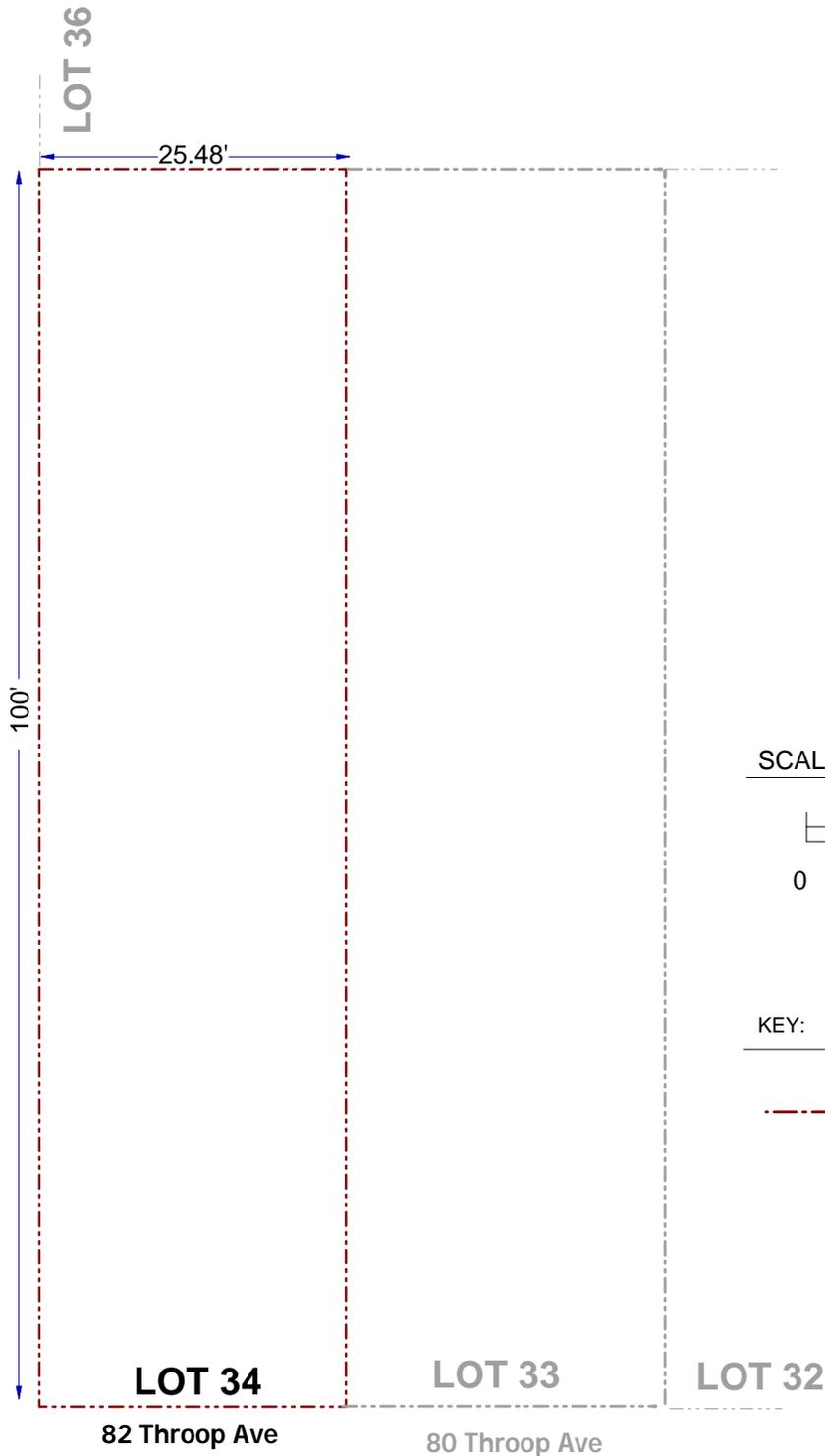
Phone 631.504.6000  
Fax 631.924.2870

82 THROOP AVENUE  
BROOKLYN, NEW YORK 11206

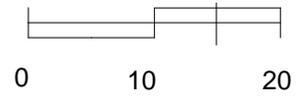
FIGURE 1 - SITE LOCATION MAP

GERRY STREET

THROOP AVENUE



SCALE:

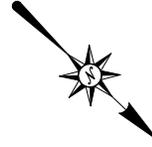


1 Inch = 15 feet

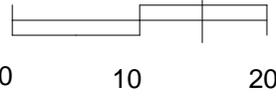
KEY:

--- Property Boundary

**CELLAR LEVEL  
CONCRETE CAPPED  
REAR YARD**



SCALE:

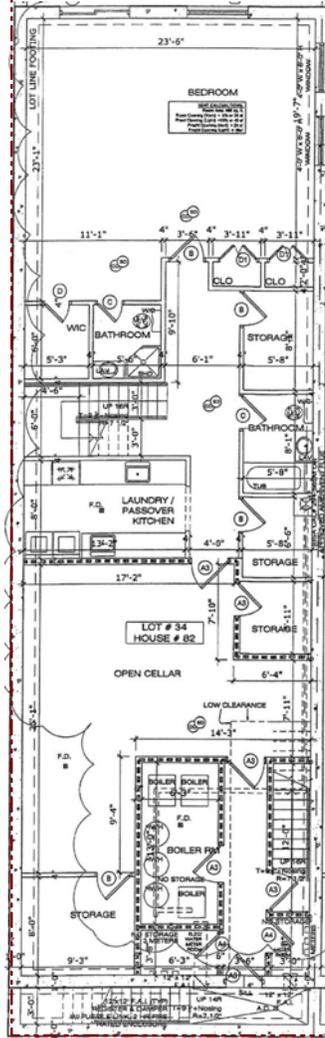


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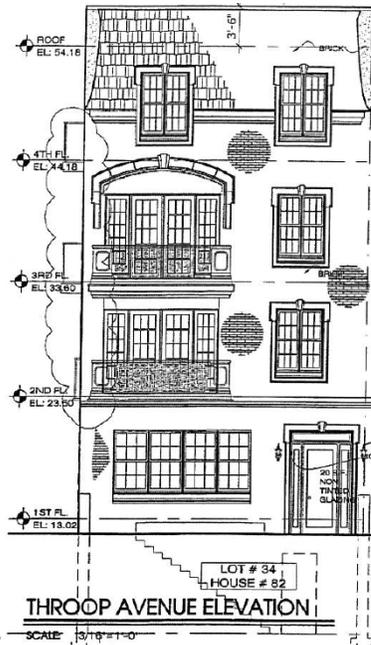
KEY:

----- Property Boundary

GERRY STREET



**CELLAR  
FLOOR PLAN**



**THROOP AVENUE ELEVATION**

THROOP AVENUE



Phone 631.504.6000  
Fax 631.924.2870

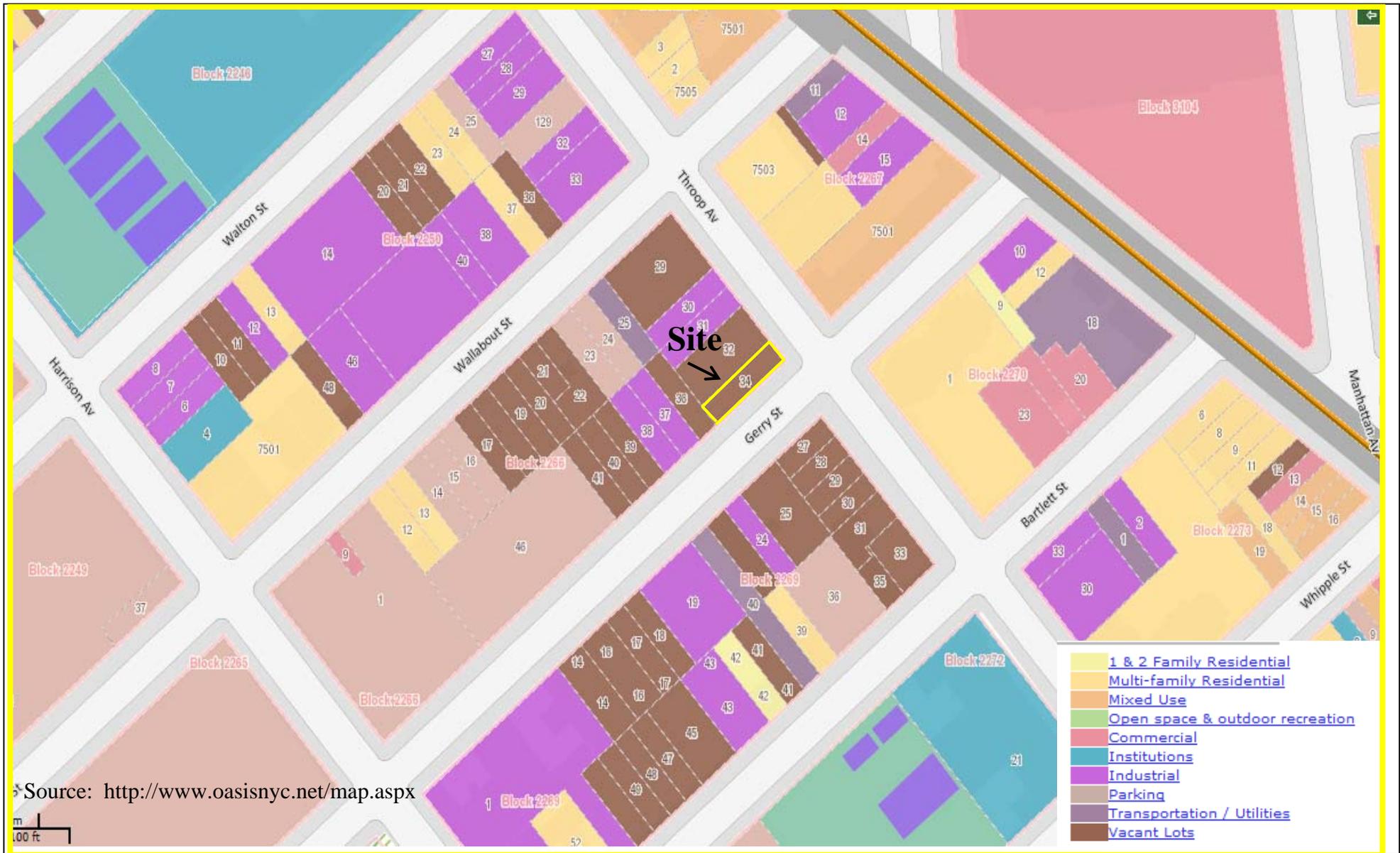
ENVIRONMENTAL BUSINESS CONSULTANTS

**Figure No.  
3**

Site Name: **REDEVELOPMENT PROJECT**

Site Address: **82 THROOP AVENUE, BROOKLYN, NY**

Drawing Title: **REDEVELOPMENT PLAN**



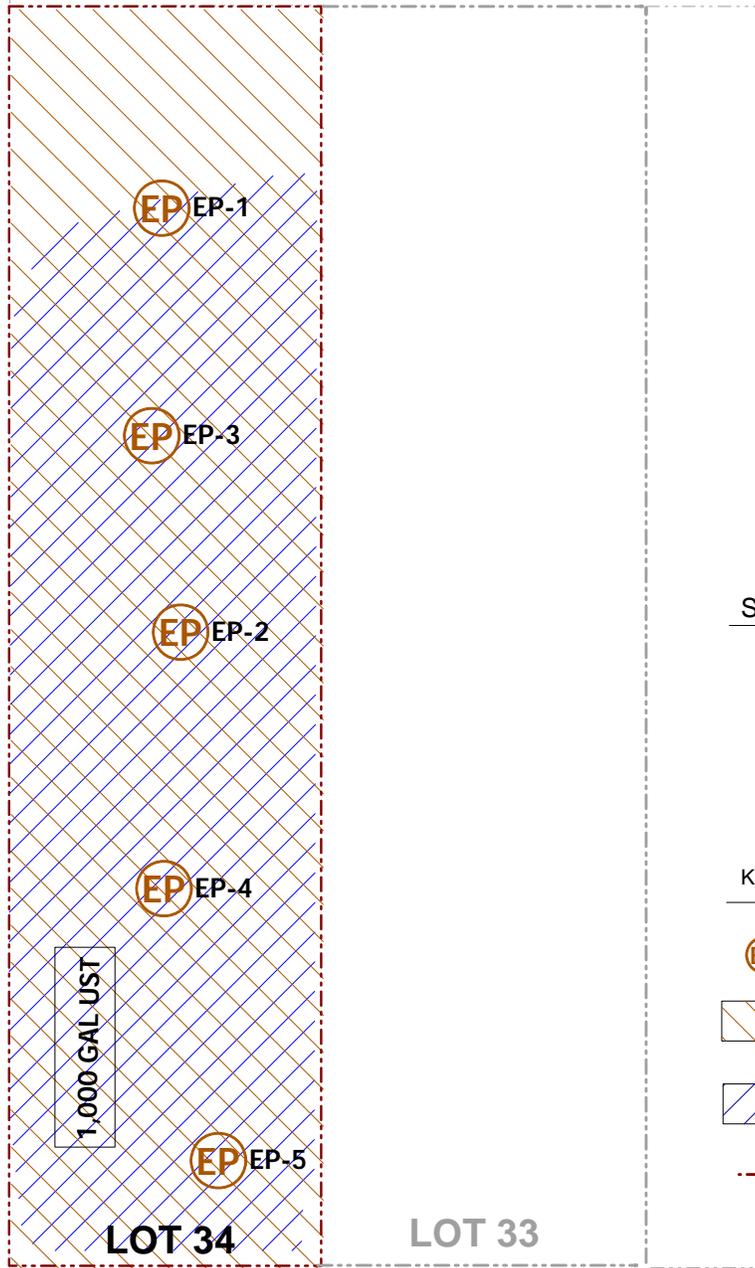
**FIGURE 4**  
**SURROUNDING LAND USE MAP**

82 THROOP AVENUE, BROOKLYN, NY  
 REMEDIAL INVESTIGATION REPORT

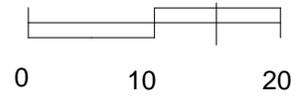


**ENVIRONMENTAL BUSINESS CONSULTANTS**  
 1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961  
 PHONE: (631) 504-6000 FAX: (631) 924-2870

GERRY STREET



SCALE:



1 Inch = 15 feet

KEY:

- Endpoint Sample - Full E-Site List
- Excavated to ~8ft for building's cellar level
- Over excavated to remove contamination
- Property Boundary

THROOP AVENUE



ENVIRONMENTAL BUSINESS CONSULTANTS

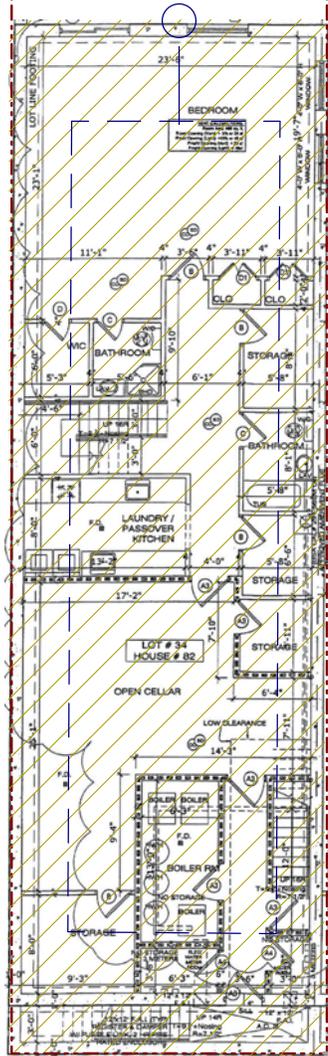
Phone 631.504.6000  
Fax 631.924.2870

Figure No.  
**5**

Site Name: **REDEVELOPMENT PROJECT**  
Site Address: **82 THROOP AVENUE, BROOKLYN, NY**  
Drawing Title: **EXCAVATION AND ENDPOINT SAMPLE DIAGRAM**

GERRY STREET

**CELLAR LEVEL  
CONCRETE CAPPED  
REAR YARD**

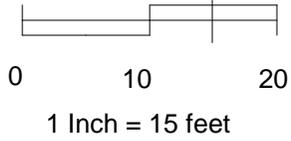


**CELLAR  
FLOOR PLAN**

THROOP AVENUE



SCALE:



KEY:

-  Property Boundary
-  Raven Industries VBP 20 Plus Vapor Barrier
-  SSDS Pipe Below Slab



Phone 631.504.6000  
Fax 631.924.2870

ENVIRONMENTAL BUSINESS CONSULTANTS

Figure No. **6**

Site Name: **REDEVELOPMENT PROJECT**

Site Address: **82 THROOP AVENUE, BROOKLYN, NY**

Drawing Title: **SSDS AND VAPOR BARRIER LAYOUT**

# **TABLES**

TABLE 1  
82 Throop Avenue,  
Brooklyn, New York  
Endpoint Soil Sample Analytical Results  
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP1		EP2		EP3		EP4		EP5		Duplicate (EP1)	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,1,1-Trichloroethane	680	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,1,2,2-Tetrachloroethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,1,2-Trichloroethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,1-Dichloroethane	270	26,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,1-Dichloroethene	330	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,1-Dichloropropene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,2,3-Trichlorobenzene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,2,3-Trichloropropane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,2,4-Trichlorobenzene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,2,4-Trimethylbenzene	3,600	52,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,2-Dibromo-3-chloropropane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,2-Dibromoethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,2-Dichlorobenzene	1,100	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,2-Dichloroethane	20	3,100	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,2-Dichloropropane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,3,5-Trimethylbenzene	8,400	52,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,3-Dichlorobenzene	2,400	4,900	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,3-Dichloropropane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
1,4-Dichlorobenzene	1,800	13,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
2,2-Dichloropropane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
2-Chlorotoluene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
2-Hexanone (Methyl Butyl Ketone)			ND	31	ND	30	ND	28	ND	30	ND	31	ND	32
2-Isopropyltoluene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
4-Chlorotoluene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
4-Methyl-2-Pentanone			ND	31	ND	30	ND	28	ND	30	ND	31	ND	32
Acetone	50	100,000	ND	6.2	ND	30	ND	28	ND	61	9	62	ND	63
Acrylonitrile			ND	12	ND	12	ND	11	ND	12	ND	12	ND	13
Benzene	60	4,800	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Bromobenzene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Bromochloromethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Bromodichloromethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Bromoform			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Bromomethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Carbon Disulfide			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Carbon tetrachloride	760	2,400	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Chlorobenzene	1,100	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Chloroethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Chloroform	370	49,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Chloromethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
cis-1,2-Dichloroethene	250	100,000	ND	6.2	ND	6	ND	5.6	1.5	6.1	ND	6.2	ND	6.3
cis-1,3-Dichloropropene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Dibromochloromethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Dibromomethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Dichlorodifluoromethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Ethylbenzene	1,000	41,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Hexachlorobutadiene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Isopropylbenzene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
m&p-Xylenes	260	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Methyl Ethyl Ketone (2-Butanone)	120	100,000	ND	37	ND	36	ND	34	ND	37	ND	37	ND	38
Methyl t-butyl ether (MTBE)	930	100,000	ND	12	ND	12	ND	11	ND	12	ND	12	ND	13
Methylene chloride	50	100,000	1.6	6.2	7	6	7.3	5.6	1.5	6.1	3.1	6.2	1.6	6.3
Naphthalene	12,000	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
n-Butylbenzene	12,000	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
n-Propylbenzene	3,900	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
o-Xylene	260	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
p-Isopropyltoluene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
sec-Butylbenzene	11,000	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Styrene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
tert-Butylbenzene	5,900	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Tetrachloroethane	1,300	19,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Tetrahydrofuran (THF)			ND	12	ND	12	ND	11	ND	12	ND	12	ND	13
Toluene	700	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
trans-1,2-Dichloroethene	190	100,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
trans-1,3-Dichloropropene			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
trans-1,4-dichloro-2-butene			ND	12	ND	12	ND	11	ND	12	ND	12	ND	13
Trichloroethene	470	21,000	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Trichlorofluoromethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Trichlorotrifluoroethane			ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Vinyl Chloride	20	900	ND	6.2	ND	6	ND	5.6	ND	6.1	ND	6.2	ND	6.3
Total BTEX Concentration			0.0		0.0		0.0		0.0		0.0		0.0	
Total VOCs Concentration			1.6		7.0		7.3		3.0		12.1		1.6	

Notes:

\* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not-detected

RL - Reporting Limit

**Bold/highlighted-** Indicated exceedance of the NYSDEC UUSCO Guidance Value

**Bold/highlighted-** Indicated exceedance of the NYSDEC RRSO Guidance Value

TABLE 2  
82 Throop Avenue,  
Brooklyn, New York  
Endpoint Soil Sample Analytical Results  
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP1		EP2		EP3		EP4		EP5		Duplicate (EP1)	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL								
1,2,4,5-Tetrachlorobenzene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
1,2,4-Trichlorobenzene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
1,2-Dichlorobenzene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
1,2-Diphenylhydrazine			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
1,3-Dichlorobenzene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
1,4-Dichlorobenzene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
2,4,5-Trichlorophenol			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
2,4,6-Trichlorophenol			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
2,4-Dichlorophenol			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
2,4-Dimethylphenol			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
2,4-Dinitrophenol			ND	2,100	ND	2,000	ND	1,800	ND	2,000	ND	2,100	ND	2,000
2,4-Dinitrotoluene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
2,6-Dinitrotoluene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
2-Chloronaphthalene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
2-Chlorophenol			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
2-Methylnaphthalene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
2-Methylphenol (o-cresol)	330	100,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
2-Nitroaniline			ND	2,100	ND	2,000	ND	1,800	ND	2,000	ND	2,100	ND	2,000
2-Nitrophenol			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
3&4-Methylphenol (m&p-cresol)			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
3,3'-Dichlorobenzidine			ND	830	ND	820	ND	720	ND	790	ND	820	ND	810
3-Nitroaniline			ND	2,100	ND	2,000	ND	1,800	ND	2,000	ND	2,100	ND	2,000
4,6-Dinitro-2-methylphenol			ND	2,100	ND	2,000	ND	1,800	ND	2,000	ND	2,100	ND	2,000
4-Bromophenyl phenyl ether			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
4-Chloro-3-methylphenol			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
4-Chloroaniline			ND	830	ND	820	ND	720	ND	790	ND	820	ND	810
4-Chlorophenyl phenyl ether			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
4-Nitroaniline			ND	2,100	ND	2,000	ND	1,800	ND	2,000	ND	2,100	ND	2,000
4-Nitrophenol			ND	2,100	ND	2,000	ND	1,800	ND	2,000	ND	2,100	ND	2,000
Acenaphthene	20,000	100,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Acenaphthylene	100,000	100,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Acetophenone			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Aniline			ND	2,100	ND	2,000	ND	1,800	ND	2,000	ND	2,100	ND	2,000
Anthracene	100,000	100,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Benz(a)anthracene	1,000	1,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Benzzidine			ND	830	ND	820	ND	720	ND	790	ND	820	ND	810
Benzo(a)pyrene	1,000	1,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Benzo(b)fluoranthene	1,000	1,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Benzo(g,h,i)perylene	100,000	100,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Benzo(k)fluoranthene	800	1,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Benzoic acid			ND	2,100	ND	2,000	ND	1,800	ND	2,000	ND	2,100	ND	2,000
Benzyl butyl phthalate			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Bis(2-chloroethoxy)methane			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Bis(2-chloroethyl)ether			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Bis(2-chloroisopropyl)ether			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Bis(2-ethylhexyl)phthalate			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Carbazole			ND	2,100	ND	2,000	ND	1,800	ND	2,000	ND	2,100	ND	2,000
Chrysene	1,000	1,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Dibenz(a,h)anthracene	330	330	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Dibenzofuran	7,000	59,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Diethyl phthalate			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Dimethylphthalate			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Di-n-butylphthalate			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Di-n-octylphthalate			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Fluoranthene	100,000	100,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Fluorene	30,000	100,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Hexachlorobenzene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Hexachlorobutadiene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Hexachlorocyclopentadiene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Hexachloroethane			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Indeno(1,2,3-cd)pyrene	500	500	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Isophorone			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Naphthalene	12,000	100,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Nitrobenzene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
N-Nitrosodimethylamine			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
N-Nitrosodi-n-propylamine			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
N-Nitrosodiphenylamine			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Pentachloronitrobenzene			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Pentachlorophenol	800	2,400	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Phenanthrene	100,000	100,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Phenol	330	100,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Pyrene	100,000	100,000	ND	290	ND	290	ND	250	ND	280	ND	290	ND	290
Pyridine			ND	290	ND	290	ND	250	ND	280	ND	290	ND	290

Notes:

\*\* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not-detected

RL - Reporting Limit

**Boldhighlighted**- Indicated exceedance of the NYSDEC UUSCO Guidance Value

**Boldhighlighted**- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 3  
82 Throop Avenue,  
Brooklyn, New York  
Endpoint Soil Sample Analytical Results  
Pesticides PCBs

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP1		EP2		EP3		EP4		EP5		Duplicate (EP1)	
			Result	RL	Result	RL								
4,4' -DDD	3.3	2,600	ND	3	ND	2.9	ND	2.6	ND	2.9	ND	2.9	ND	3
4,4' -DDE	3.3	1,800	ND	3	ND	2.9	ND	2.6	ND	2.9	ND	2.9	ND	3
4,4' -DDT	3.3	1,700	ND	3	ND	2.9	ND	2.6	ND	2.9	ND	2.9	ND	3
a-BHC	20	97	ND	2.1	ND	2	ND	1.8	ND	2	ND	2	ND	2.1
a-Chlordane	94	910	ND	4.1	ND	4	ND	3.6	ND	4	ND	4	ND	4.1
Aldrin	5	19	ND	2.1	ND	2	ND	1.8	ND	2	ND	2	ND	2.1
b-BHC	36	72	ND	2.1	ND	2	ND	1.8	ND	2	ND	2	ND	2.1
Chlordane			ND	25	ND	24	ND	22	ND	24	ND	24	ND	25
d-BHC	40	100,000	ND	2.1	ND	2	ND	1.8	ND	2	ND	2	ND	2.1
Dieldrin	5	39	ND	2.1	ND	2	ND	1.8	ND	2	ND	2	ND	2.1
Endosulfan I	2,400	4,800	ND	4.1	ND	4	ND	3.6	ND	4	ND	4	ND	4.1
Endosulfan II	2,400	4,800	ND	4.1	ND	4	ND	3.6	ND	4	ND	4	ND	4.1
Endosulfan sulfate	2,400	4,800	ND	4.1	ND	4	ND	3.6	ND	4	ND	4	ND	4.1
Endrin	14	2,200	ND	2.1	ND	2	ND	1.8	ND	2	ND	2	ND	2.1
Endrin aldehyde			ND	4.1	ND	4	ND	3.6	ND	4	ND	4	ND	4.1
Endrin ketone			ND	2.1	ND	2	ND	1.8	ND	2	ND	2	ND	2.1
g-BHC	100	280	ND	2.1	ND	2	ND	1.8	ND	2	ND	2	ND	2.1
g-Chlordane			ND	4.1	ND	4	ND	3.6	ND	4	ND	4	ND	4.1
Heptachlor	42	420	ND	2.1	ND	2	ND	1.8	ND	2	ND	2	ND	2.1
Heptachlor epoxide			ND	2.1	ND	2	ND	1.8	ND	2	ND	2	ND	2.1
Methoxychlor			ND	8.3	ND	8	ND	7.3	ND	8.1	ND	8.1	ND	8.3
Toxaphene			ND	40	ND	39	ND	35	ND	39	ND	39	ND	40
PCB-1016	100	1,000	ND	41	ND	40	ND	36	ND	40	ND	41	ND	41
PCB-1221	100	1,000	ND	41	ND	40	ND	36	ND	40	ND	41	ND	41
PCB-1232	100	1,000	ND	41	ND	40	ND	36	ND	40	ND	41	ND	41
PCB-1242	100	1,000	ND	41	ND	40	ND	36	ND	40	ND	41	ND	41
PCB-1248	100	1,000	ND	41	ND	40	ND	36	ND	40	ND	41	ND	41
PCB-1254	100	1,000	ND	41	ND	40	ND	36	ND	40	ND	41	ND	41
PCB-1260	100	1,000	ND	41	ND	40	ND	36	ND	40	ND	41	ND	41
PCB-1262	100	1,000	ND	41	ND	40	ND	36	ND	40	ND	41	ND	41
PCB-1268	100	1,000	ND	41	ND	40	ND	36	ND	40	ND	41	ND	41

**Notes:**

\* Due to matrix interference from non target compounds in the sample an elevated RL was reported.

\*\* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Non-Detect

**Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value**

**Bold/highlighted- Indicated exceedance of the NYSDEC RRSO Guidance Value**

TABLE 4  
82 Throop Avenue,  
Brooklyn, New York  
Endpoint Soil Sample Analytical Results  
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP1		EP2		EP3		EP4		EP5		Duplicate (EP1)	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			<b>6,460</b>	38	<b>4060</b>	40	<b>5390</b>	37	<b>3,820</b>	39	<b>3,850</b>	38	<b>5,160</b>	43
Antimony			BRL	1.9	BRL	2	BRL	1.8	BRL	2	BRL	1.9	<b>1</b>	2.2
Arsenic	13	16	<b>4.5</b>	0.8	<b>1.1</b>	0.8	<b>1.2</b>	0.7	<b>1.7</b>	0.8	<b>1.1</b>	0.8	<b>3.1</b>	0.9
Barium	350	350	<b>13.1</b>	0.8	<b>12.2</b>	0.8	<b>15.7</b>	0.7	<b>23.5</b>	0.8	<b>20.1</b>	0.8	<b>11</b>	0.9
Beryllium	7.2	14	<b>0.52</b>	0.3	<b>0.22</b>	0.32	<b>0.26</b>	0.29	<b>0.29</b>	0.31	<b>0.29</b>	0.3	<b>0.4</b>	0.35
Cadmium	2.5	2.5	<b>0.5</b>	0.38	BRL	0.4	BRL	0.37	<b>0.26</b>	0.39	<b>0.15</b>	0.38	<b>0.36</b>	0.43
Calcium			<b>654</b>	3.8	<b>405</b>	4	<b>416</b>	3.7	<b>1,040</b>	3.9	<b>838</b>	3.8	<b>511</b>	4.3
Chromium			<b>15.2</b>	0.38	<b>10.4</b>	0.4	<b>8.91</b>	0.37	<b>11.6</b>	0.39	<b>10.7</b>	0.38	<b>11.6</b>	0.43
Cobalt			<b>3.71</b>	0.38	<b>2.94</b>	0.4	<b>3.01</b>	0.37	<b>3.33</b>	0.39	<b>3.36</b>	0.38	<b>2.63</b>	0.43
Copper	50	270	<b>27.2</b>	0.38	<b>8.94</b>	0.4	<b>8.5</b>	0.37	<b>9.31</b>	0.39	<b>7.54</b>	0.38	<b>19</b>	0.43
Iron			<b>21,900</b>	38	<b>7380</b>	4	<b>8930</b>	3.7	<b>10,200</b>	39	<b>6,080</b>	38	<b>15,800</b>	43
Lead	63	400	<b>3.9</b>	0.8	<b>2.4</b>	0.8	<b>3.3</b>	0.7	<b>2.7</b>	0.8	<b>3.1</b>	0.8	<b>3</b>	0.9
Magnesium			<b>1,340</b>	3.8	<b>856</b>	4	<b>1300</b>	3.7	<b>1,110</b>	3.9	<b>1,100</b>	3.8	<b>998</b>	4.3
Manganese	1,600	2,000	<b>89</b>	0.38	<b>40.5</b>	0.4	<b>50.6</b>	0.37	<b>92.4</b>	0.39	<b>57</b>	0.38	<b>60.7</b>	0.43
Mercury	0.18	0.81	BRL	0.08	BRL	0.07	BRL	0.07	BRL	0.07	BRL	0.08	BRL	0.1
Nickel	30	140	<b>10.2</b>	0.38	<b>5.47</b>	0.4	<b>6.2</b>	0.37	<b>7.73</b>	0.39	<b>5.85</b>	0.38	<b>5.91</b>	0.43
Potassium			<b>541</b>	8	<b>361</b>	8	<b>419</b>	7	<b>489</b>	8	<b>526</b>	8	<b>442</b>	9
Selenium	3.9	36	BRL	1.5	BRL	1.6	BRL	1.5	BRL	1.6	BRL	1.5	BRL	1.7
Silver	2	36	BRL	0.38	BRL	0.4	BRL	0.37	BRL	0.39	BRL	0.38	BRL	0.43
Sodium			<b>46</b>	8	<b>31</b>	8	<b>40</b>	7	<b>73</b>	8	<b>58</b>	8	<b>43</b>	9
Thallium			BRL	1.5	BRL	1.6	BRL	1.5	BRL	1.6	BRL	1.5	BRL	1.7
Vanadium			<b>29.8</b>	0.4	<b>18.4</b>	0.4	<b>22.2</b>	0.4	<b>22.1</b>	0.4	<b>16.6</b>	0.4	<b>26.9</b>	0.4
Zinc	109	2,200	<b>18.9</b>	0.8	<b>11.3</b>	0.8	<b>14</b>	0.7	<b>16.2</b>	0.8	<b>13.9</b>	0.8	<b>15.4</b>	0.9

**Notes:**

\*\* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

BRL - Below Reporting Limit

**Bold/highlighted-** Indicated exceedance of the NYSDEC UUSCO Guidance Value

**Bold/highlighted-** Indicated exceedance of the NYSDEC RRSCO Guidance Value

**TABLE 5**  
**Soil Cleanup Objectives**

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water	Unrestricted Use
		Residential	Restricted-Residential	Commercial	Industrial			
<b>METALS</b>								
Arsenic	7440-38-2	16f	16f	16f	16f	13f	16f	13 <sup>c</sup>
Barium	7440-39-3	350f	400	400	10,000 d	433	820	350 <sup>c</sup>
Beryllium	7440-41-7	14	72	590	2,700	10	47	7.2
Cadmium	7440-43-9	2.5f	4.3	9.3	60	4	7.5	2.5 <sup>c</sup>
Chromium, hexavalent <sup>h</sup>	18540-29-9	22	110	400	800	1e	19	1 <sup>b</sup>
Chromium, trivalent <sup>h</sup>	16065-83-1	36	180	1,500	6,800	41	NS	30 <sup>c</sup>
Copper	7440-50-8	270	270	270	10,000 d	50	1,720	50
Total Cyanide <sup>h</sup>		27	27	27	10,000 d	NS	40	27
Lead	7439-92-1	400	400	1,000	3,900	63f	450	63 <sup>c</sup>
Manganese	7439-96-5	2,000f	2,000f	10,000 d	10,000 d	1600f	2,000f	1600 <sup>c</sup>
Total Mercury		0.81j	0.81j	2.8j	5.7j	0.18f	0.73	0.18 <sup>c</sup>
Nickel	7440-02-0	140	310	310	10,000 d	30	130	30
Selenium	7782-49-2	36	180	1,500	6,800	3.9f	4f	3.9 <sup>c</sup>
Silver	7440-22-4	36	180	1,500	6,800	2	8.3	2
Zinc	7440-66-6	2200	10,000 d	10,000 d	10,000 d	109f	2,480	109 <sup>c</sup>
<b>PESTICIDES / PCBs</b>								
2,4,5-TP Acid (Silvex)	93-72-1	58	100a	500b	1,000c	NS	3.8	3.8
4,4'-DDE	72-55-9	1.8	8.9	62	120	0.0033 e	17	0.0033 <sup>b</sup>
4,4'-DDT	50-29-3	1.7	7.9	47	94	0.0033 e	136	0.0033 <sup>b</sup>
4,4'-DDD	72-54-8	2.6	13	92	180	0.0033 e	14	0.0033 <sup>b</sup>
Aldrin	309-00-2	0.019	0.097	0.68	1.4	0.14	0.19	0.005 <sup>c</sup>
alpha-BHC	319-84-6	0.097	0.48	3.4	6.8	0.04g	0.02	0.02
beta-BHC	319-85-7	0.072	0.36	3	14	0.6	0.09	0.036
Chlordane (alpha)	5103-71-9	0.91	4.2	24	47	1.3	2.9	0.094
delta-BHC	319-86-8	100a	100a	500b	1,000c	0.04g	0.25	0.04
Dibenzofuran	132-64-9	14	59	350	1,000c	NS	210	7
Dieldrin	60-57-1	0.039	0.2	1.4	2.8	0.006	0.1	0.005 <sup>c</sup>
Endosulfan I	959-98-8	4.8i	24i	200i	920i	NS	102	2.4
Endosulfan II	33213-65-9	4.8i	24i	200i	920i	NS	102	2.4
Endosulfan sulfate	1031-07-8	4.8i	24i	200i	920i	NS	1,000c	2.4
Endrin	72-20-8	2.2	11	89	410	0.014	0.06	0.014
Heptachlor	76-44-8	0.42	2.1	15	29	0.14	0.38	0.042
Lindane	58-89-9	0.28	1.3	9.2	23	6	0.1	0.1
Polychlorinated biphenyls	1336-36-3	1	1	1	25	1	3.2	0.1
<b>SEMI-VOLATILES</b>								
Acenaphthene	83-32-9	100a	100a	500b	1,000c	20	98	20
Acenaphthylene	208-96-8	100a	100a	500b	1,000c	NS	107	100 <sup>a</sup>
Anthracene	120-12-7	100a	100a	500b	1,000c	NS	1,000c	100 <sup>a</sup>
Benzo(a)anthracene	56-55-3	1f	1f	5.6	11	NS	1f	1 <sup>c</sup>
Benzo(a)pyrene	50-32-8	1f	1f	1f	1.1	2.6	22	1 <sup>c</sup>
Benzo(b)fluoranthene	205-99-2	1f	1f	5.6	11	NS	1.7	1 <sup>c</sup>
Benzo(g,h,i)perylene	191-24-2	100a	100a	500b	1,000c	NS	1,000c	100
Benzo(k)fluoranthene	207-08-9	1	3.9	56	110	NS	1.7	0.8 <sup>c</sup>
Chrysene	218-01-9	1f	3.9	56	110	NS	1f	1 <sup>c</sup>
Dibenz(a,h)anthracene	53-70-3	0.33e	0.33e	0.56	1.1	NS	1,000c	0.33 <sup>b</sup>
Fluoranthene	206-44-0	100a	100a	500b	1,000c	NS	1,000c	100 <sup>a</sup>
Fluorene	86-73-7	100a	100a	500b	1,000c	30	386	30
Indeno(1,2,3-cd)pyrene	193-39-5	0.5f	0.5f	5.6	11	NS	8.2	0.5 <sup>c</sup>
m-Cresol	108-39-4	100a	100a	500b	1,000c	NS	0.33e	0.33 <sup>b</sup>
Naphthalene	91-20-3	100a	100a	500b	1,000c	NS	12	12
o-Cresol	95-48-7	100a	100a	500b	1,000c	NS	0.33e	0.33 <sup>b</sup>
p-Cresol	106-44-5	34	100a	500b	1,000c	NS	0.33e	0.33 <sup>b</sup>
Pentachlorophenol	87-86-5	2.4	6.7	6.7	55	0.8e	0.8e	0.8 <sup>b</sup>
Phenanthrene	85-01-8	100a	100a	500b	1,000c	NS	1,000c	100
Phenol	108-95-2	100a	100a	500b	1,000c	30	0.33e	0.33 <sup>b</sup>
Pyrene	129-00-0	100a	100a	500b	1,000c	NS	1,000c	100

**TABLE 5**  
**Soil Cleanup Objectives**

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water	Unrestricted Use
		Residential	Restricted-Residential	Commercial	Industrial			
<b>VOLATILES</b>								
1,1,1-Trichloroethane	71-55-6	100a	100a	500b	1,000c	NS	0.68	0.68
1,1-Dichloroethane	75-34-3	19	26	240	480	NS	0.27	0.27
1,1-Dichloroethene	75-35-4	100a	100a	500b	1,000c	NS	0.33	0.33
1,2-Dichlorobenzene	95-50-1	100a	100a	500b	1,000c	NS	1.1	1.1
1,2-Dichloroethane	107-06-2	2.3	3.1	30	60	10	0.02f	0.02 <sup>c</sup>
cis-1,2-Dichloroethene	156-59-2	59	100a	500b	1,000c	NS	0.25	0.25
trans-1,2-Dichloroethene	156-60-5	100a	100a	500b	1,000c	NS	0.19	0.19
1,3-Dichlorobenzene	541-73-1	17	49	280	560	NS	2.4	2.4
1,4-Dichlorobenzene	106-46-7	9.8	13	130	250	20	1.8	1.8
1,4-Dioxane	123-91-1	9.8	13	130	250	0.1e	0.1e	0.1 <sup>b</sup>
Acetone	67-64-1	100a	100b	500b	1,000c	2.2	0.05	0.05
Benzene	71-43-2	2.9	4.8	44	89	70	0.06	0.06
Butylbenzene	104-51-8	100a	100a	500b	1,000c	NS	12	12
Carbon tetrachloride	56-23-5	1.4	2.4	22	44	NS	0.76	0.76
Chlorobenzene	108-90-7	100a	100a	500b	1,000c	40	1.1	1.1
Chloroform	67-66-3	10	49	350	700	12	0.37	0.37
Ethylbenzene	100-41-4	30	41	390	780	NS	1	1
Hexachlorobenzene	118-74-1	0.33e	1.2	6	12	NS	3.2	0.33 <sup>b</sup>
Methyl ethyl ketone	78-93-3	100a	100a	500b	1,000c	100a	0.12	0.12
Methyl tert-butyl ether	1634-04 -4	62	100a	500b	1,000c	NS	0.93	0.93
Methylene chloride	75-09-2	51	100a	500b	1,000c	12	0.05	0.05
n-Propylbenzene	103-65-1	100a	100a	500b	1,000c	NS	3.9	3.9
sec-Butylbenzene	135-98-8	100a	100a	500b	1,000c	NS	11	11
tert-Butylbenzene	98-06-6	100a	100a	500b	1,000c	NS	5.9	5.9
Tetrachloroethene	127-18-4	5.5	19	150	300	2	1.3	1.3
Toluene	108-88-3	100a	100a	500b	1,000c	36	0.7	0.7
Trichloroethene	79-01-6	10	21	200	400	2	0.47	0.47
1,2,4-Trimethylbenzene	95-63-6	47	52	190	380	NS	3.6	3.6
1,3,5-Trimethylbenzene	108-67-8	47	52	190	380	NS	8.4	8.4
Vinyl chloride	75-01-4	0.21	0.9	13	27	NS	0.02	0.02
Xylene (mixed)	1330-20 -7	100a	100a	500b	1,000c	0.26	1.6	0.26

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD). Footnotes

a The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

b The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

c The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

d The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

e For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

**APPENDIX A**  
***Remedial Investigation Report***

**82 THROOP AVENUE**

**BROOKLYN, NEW YORK**

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# **Remedial Investigation Report**

**NYC VCP Site Number: 13CVCP147K**

**Prepared for:**

Throop Wallabout Realty, LLC  
505 Flushing Avenue, Suite 1D  
Brooklyn, New York 11205

**Prepared by:**

***EBC***

***ENVIRONMENTAL BUSINESS CONSULTANTS***

1808 Middle Country Road  
Ridge, NY 11961

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JUNE 2013

# REMEDIAL INVESTIGATION REPORT

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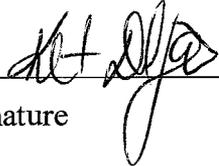
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## LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

## CERTIFICATION

I, Kristen DiScenza, 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 Redevelopment Project located at 82 Throop Avenue, Brooklyn, NY, (NYC VCP Site No. 13CVCP147K). 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.

<u>Kristen DiScenza</u>	<u>6/10/13</u>	<u></u>
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 82 Throop Avenue in the Williamsburg section of Brooklyn, New York, and is identified as Block 2266 and Lot 34 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 2,548-square feet and is bounded by Block 2266 Lot 32 (vacant land) to the north, Gerry Street and Block 2269 Lot 27 (vacant land) to the south, Throop Avenue and Block 2267 Lot 7501 (multi-story mixed residential/commercial building) to the east, and Block 2266 Lot 36 (vacant land) to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is undeveloped, vacant and uncapped.

### Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of redeveloping the Lot with a 4-story apartment building. The 25.48 ft wide tax lot will have a full cellar beneath the footprint of the building. The building will extend approximately 65 feet. Therefore, the gross building square footage will be approximately 8,125 ft<sup>2</sup>. There will be a rear cellar level walk-out court yard behind the building, which will be approximately 35 feet deep. The concrete slab of the cellar will be approximately 6 feet 4 inches below sidewalk level. The street front portion of the cellar will consist of a boiler room, gas meter room, electric meter room and a large open cellar area. The remaining portions of the cellar will consist of residential space. The building will consist of three residential units.

Excavation for new building and rear cellar level court yard will likely extend to a depth of approximately 8 feet below grade for construction of the buildings cellar levels and foundations. Assuming an excavation volume of approximately 25 feet (wide) by 100 feet (length) and 8 feet (deep), a total of approximately 750 cubic yards (1,100 tons) of soil will require excavation. The



slab and rear cellar level court yard for each building will be capped with a 1 ft 6 inch layer of concrete.

Layout of the proposed site development is presented in Figure 3. The current zoning designation is R7A with C2-4 commercial overlay. The proposed use is consistent with existing zoning for the property.

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

EBC was able to establish a history for the property dating back to 1887. According to a review of NYC records, City Directory Listings and historic Sanborn maps, the Site was developed with a two small residential structures prior to 1887. Between 1887 and 1904, one of the small residential buildings was replaced with a 4-story apartment building with a first floor store and the small residential building behind the 4-story apartment building converted the first floor space into two small stores. The 1st floor of the 4-story apartment building was utilized as a grocery store from the 1940's to the 1970's. In the early 1980's, the both buildings were demolished. The Site has remained undeveloped since, but the property was used for lumber storage until approximately 2003. The Site appears to have been unused since 2003.

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths as great as 3 feet below grade.

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

Throop Wallabout Realty, LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed three soil borings across the entire project Site, and collected six soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and



4. Installed three soil vapor probes across the Site and collected three samples for chemical analysis.

### Summary of Environmental Findings

1. Elevation of the property ranges from 24 to 25 feet.
2. Depth to groundwater ranges from 10.03 to 12.34 feet at the Site.
3. Groundwater flow is generally from south to north beneath the Site.
4. Depth to bedrock is at the Site is greater than 100 feet.
5. The stratigraphy of the Site, from the surface down, consists of 3 feet of historic fill underlain by native brown silty sand.
6. Soil/fill samples collected during the RI showed no detectable concentrations of VOCs. Six SVOCs including benzo(a)anthracene (max. of 3,300 µg/Kg), benzo(a)pyrene (max. of 2,900 µg/Kg), benzo(b)fluoranthene (max. of 4,300 µg/Kg), benzo-(k)fluoranthene (max. of 1,600 µg/Kg), chrysene (max. of 3,500 µg/Kg), and indeno(1,2,3-cd)pyrene (max. of 1,100 µg/Kg) were detected above their respective Restricted Residential SCOs within all shallow soil samples. The SVOCs detected above Unrestricted/Restricted Residential SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Three pesticides 4,4'-DDE (34 µg/Kg), 4,4'-DDT (max. of 140 µg/Kg), and dieldrin (11 µg/Kg) were detected above Unrestricted Use SCOs. One pesticide, 4,4'-DDD (3.6 µg/Kg), was detected in one deep soil sample (SB2). All pesticide concentrations were well below Restricted Residential SCOs. One PCB, PCB-1260, was detected above Unrestricted Use SCOs at a maximum concentration of 130 µg/Kg. Five metals including barium (max. of 642 µg/Kg), copper (max. of 97.7 µg/Kg), lead (max. of 967 µg/Kg), mercury (max. of 1.15 µg/Kg) and zinc (max. of 537 µg/Kg) exceeded Unrestricted Use SCOs in all three shallow soil samples. Of these metals, barium, lead, and mercury also exceeded Restricted Residential SCOs. Zinc was detected in one deep soil sample, above Unrestricted Use SCOs at a concentration of 190 µg/Kg. No VOCs, SVOCs, PCBs, or pesticides were detected above Unrestricted Use SCOs within the deep soil samples collected at the Site. Overall, the findings were unremarkable and consistent with observations for historical fill sites in areas throughout NYC.

7. Groundwater samples collected during the RI showed the presence of three VOCs above GQSs within one of the monitoring wells and included cis-1,2-dichloroethene (350 µg/L), tetrachloroethene (21 µg/L), and trichloroethene (31 µg/L). No VOCs were identified in any of the soil samples collected on Site and are not associated with known historical uses of the property. Several SVOCs were detected in one or more of the three monitoring wells, but only five of the SVOCs including benzo(a)anthracene, benzo(b)fluoranthene, benzo-(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were detected at a concentration above GQS. One pesticide, 4,4'-DDT, was detected slightly above GQS at a concentration of 0.15 µg/L. PCBs were not detected. The metals including iron, lead (36 µg/L), magnesium, manganese, and sodium were detected above their respective GQS in one or more dissolved groundwater samples.
8. Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at low to moderate concentrations. Tetrachloroethylene (max. of 2.17 µg/m<sup>3</sup>), trichloroethylene (max. of 1.88 µg/m<sup>3</sup>), and carbon tetrachloride (max. of 0.566 µg/m<sup>3</sup>) were detected in all three soil vapor samples. 1,1,1-trichloroethane was detected in one of the three samples at a concentration of 1.14 µg/m<sup>3</sup>. The PCE, TCE, carbon tetrachloride, and 1,1,1-TCA concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Overall the highest reported concentrations were for acetone (maximum of 2,610 µg/m<sup>3</sup>) and ethanol (maximum of 1,520 µg/m<sup>3</sup>).

# REMEDIAL INVESTIGATION REPORT

## 1.0 SITE BACKGROUND

Throop Wallabout Realty, LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.058-acre Site located at 82 Throop Avenue in the Williamsburg section of Brooklyn, New York. Residential use is proposed for the property. The RI work was performed between May 13, 2013, and May 14, 2013. 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 82 Throop Avenue in the Williamsburg section of Brooklyn, New York, and is identified as Block 2266 and Lot 34 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 2,548-square feet and is bounded by Block 2266 Lot 32 (vacant land) to the north, Gerry Street and Block 2269 Lot 27 (vacant land) to the south, Throop Avenue and Block 2267 Lot 7501 (multi-story mixed residential/commercial building) to the east, and Block 2266 Lot 36 (vacant land) to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is undeveloped, vacant and uncapped.

### 1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of redeveloping the Lot with a 4-story apartment building. The 25.48 ft wide tax lot will have a full cellar beneath the footprint of the building. The building will extend approximately 65 feet. Therefore, the gross building square footage will be approximately 8,125 ft<sup>2</sup>. There will be a rear cellar level walk-out court yard behind the building, which will be approximately 35 feet deep. The concrete slab of the cellar will be approximately 6 feet 4 inches below sidewalk level. The street front portion of the cellar will consist of a boiler room, gas meter room, electric meter room and a large open cellar area. The remaining portions of the cellar will consist of residential space. The building will consist of three residential units.

Excavation for new building and rear cellar level court yard will likely extend to a depth of approximately 8 feet below grade for construction of the buildings cellar levels and foundations. Assuming an excavation volume of approximately 25 feet (wide) by 100 feet (length) and 8 feet (deep), a total of approximately 750 cubic yards (1,100 tons) of soil will require excavation. The slab and rear cellar level court yard for each building will be capped with a 1 ft 6 inch layer of concrete.

Layout of the proposed site development is presented in Figure 3. The current zoning designation is R7A with C2-4 commercial overlay. The proposed use is consistent with existing zoning for the property.

### 1.3 Description of Surrounding Property

The area surrounding the Site consists of a mix of residential and industrial properties. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. No hospitals, daycare facilities or schools are located within a 250 ft radius of the Site.

#### Surrounding Property Usage

Direction	Property Description
<b>North</b> – Adjacent property	<u>Block 2266, Lots 30, 31 and 32</u> (74-76 Throop Avenue) – Lots 30 and 31 are developed with 1-story industrial buildings. Lot 32 is a vacant uncapped lot.
<b>South</b> – Opposite side of Gerry Street	<u>Block 2269, Lot 27</u> (84 Throop Avenue) – A 25ft by 70ft lot located on the corner of Throop Avenue and Gerry Street. The lot is undeveloped, vacant and uncapped.
<b>East</b> – Opposite side of Throop Avenue	<u>Block 2267, Lot 7501</u> (133 Gerry Street) – Developed with 4-story mixed residential and commercial building.
<b>West</b> – Adjacent property	<u>Block 2266, Lot 36</u> (99 Gerry Street) – A 25ft by 100ft lot located that fronts Gerry Street. The lot is undeveloped, vacant and uncapped.

## **2.0 SITE HISTORY**

### **2.1 Past Uses and Ownership**

EBC was able to establish a history for the property dating back to 1887. According to a review of NYC records, City Directory Listings and historic Sanborn maps, the Site was developed with a two small residential structures prior to 1887. Between 1887 and 1904, one of the small residential buildings was replaced with a 4-story apartment building with a first floor store and the small residential building behind the 4-story apartment building converted the first floor space into two small stores. The 1st floor of the 4-story apartment building was utilized as a grocery store from the 1940's to the 1970's. In the early 1980's, the both buildings were demolished. The Site has remained undeveloped since, but the property was used for lumber storage until approximately 2003. The Site appears to have been unused since 2003.

### **2.2 Previous Investigations**

EBC has not been made aware of any previous subsurface investigations conducted at the Site.

### **2.3 Site Inspection**

Mr. Kevin Waters of EBC performed the site inspection on Thursday, May 10, 2012, beginning at approximately 8:00 am. The reconnaissance included a visual inspection of the Site, the sidewalk immediately in front of the Site, and the exterior of adjacent properties. At the time of the inspection, the Site consisted of an undeveloped/vacant lot. An 8 foot high chain link fence was present along the perimeter of the property on Gerry Street and wrapped around the adjacent property on Throop Avenue. The groundcover consisted of soil and vegetation over the entire lot.

### **2.4 Areas of Concern**

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths as great as 3 feet below grade.

A copy of the Phase 1 Report is presented in Attachment A.

### **3.0 PROJECT MANAGEMENT**

#### **3.1 Project Organization**

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Kristen DiScenza.

#### **3.2 Health and Safety**

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and 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

Throop Wallabout, LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed three soil borings across the entire project Site, and collected six soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and
4. Installed three soil vapor probes across the Site and collected three samples for chemical analysis.

### 4.1 Geophysical Investigation

A geophysical investigation was not performed as a part of this assessment.

### 4.2 Borings and Monitoring Wells

#### Drilling and Soil Logging

On May 13, 2013, three soil borings (SB1 - SB3) were performed in the approximate locations shown on Figure 5. The three soil boring locations were chosen to gain representative soil and groundwater quality information across the Site. For each of the three soil borings, soil samples were collected continuously from grade to a final depth of 10 feet below existing grade using a five-foot steel macro-core sampler with acetate liners and Geoprobe direct-push equipment. Soil recovered from each of the soil borings was field screened for the presence of VOCs with a photo-ionization detector (PID) and visually inspected for evidence of contamination. No PID readings above background concentrations were obtained from any the of soil borings.

One soil sample was retained from each soil boring representing the interval 0 to 2 feet below grade and one soil sample was retained from each soil boring representing the interval 8 to 10 feet below grade.

Soil boring details are provided in Table 1. Boring logs were prepared by a Qualified

Environmental Professional and are attached in Attachment B.

### **Groundwater Monitoring Well Construction**

A temporary 1-inch diameter PVC monitoring well with 10 feet of 0.010 slot screen was installed at boring locations (SB1 through SB3) set to intersect the water table. Since groundwater was encountered at approximately 11 feet below grade, monitoring wells were installed to a depth of 18 feet. Monitoring well sampling details are provided in Table 1. Monitoring well locations are shown in Figure 5.

### **Survey**

Soil borings and wells were located to the nearest 0.10 foot with respect to two or more permanent site features.

### **Water Level Measurement**

Approximate groundwater level measurements were collected using a Solinst oil/water interface meter to ensure the surface of the water table was within the screened section of the monitoring well. No free product was observed within the three monitoring wells. Water level data is included in Table 1.

## **4.3 Sample Collection and Chemical Analysis**

Sampling performed as part of the field investigation was conducted for all Areas of Concern 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. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. 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.

### **Soil Sampling**

Six soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in

Tables 2 through 5. Figure 5 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

The six soil samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted for analysis to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). All soil samples were analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and target analyte list (TAL) metals.

### **Groundwater Sampling**

Three groundwater samples were collected for chemical analysis during this RI. Groundwater samples were collected by installing a one-inch diameter PVC well, 5-feet below the water table interface (set at approximately 18 feet below grade). A groundwater sample was then collected from each temporary well utilizing dedicated polyethylene tubing and a peristaltic pump. Groundwater samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted to Phoenix for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and TAL metals. Groundwater sample collection data is reported in Tables 6 through 10. Sampling logs with information on purging and sampling of groundwater monitor wells are included in Attachment C. Figure 5 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

### **Soil Vapor Sampling**

Three soil vapor probes were installed and three soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 5. Soil vapor sample collection data is reported in Table 10. Soil vapor sampling logs are included in Attachment D. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006*.

The three soil vapor implants were installed using Geoprobe™ equipment and tooling. The approximate location of each of the soil vapor implants is shown on Figure 5. The vapor implants that were installed were the Geoprobe™ Model AT86 series, which are constructed of a 6-inch length of double woven stainless steel wire. The implants were installed to a depth of 8 feet below grade at all locations. Each implant was attached to ¼ inch polyethylene tubing which extended approximately 18 inches beyond that needed to reach the surface. The tubing was capped with a ¼ inch plastic end to prevent the infiltration of foreign particles into the tube. Coarse sand was placed around the vapor implant to a height of approximately 1 foot above the bottom of the implant. The remainder of the borehole was sealed with a bentonite slurry to the surface.

Soil vapor sampling for the three implants installed on May 13, 2013, was conducted on May 14, 2013. Prior to sampling, each sampling location was tested to ensure a proper surface seal had been obtained. In accordance with NYSDOH guidance (NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005), a tracer gas (helium) was used as a quality assurance/quality control device to verify the integrity of the sampling point seal prior to collecting the samples. Prior to testing and collecting samples, the surface immediately surrounding the polyethylene tubing of the vapor implant was sealed using a 1 foot ft by 1 ft square sheet of 2 mil HDPE plastic firmly adhered to a wetted layer of granular bentonite. The seal was then tested by enriching the air space above the seal with a tracer gas (helium) while continuously monitoring air drawn from the implant with a helium detector (Dielectric Model MGD-2002, Multi-Gas Detector) for a minimum of 15 minutes. The tracer gas test procedure was employed at all three soil vapor sampling locations. No surface seal leaks were observed at any of the locations.

Following verification that the surface seal was tight, one to three volumes (i.e., the volume of the sample probe and tube) of air was purged from the implant using a calibrated vacuum pump. After purging, a 6-liter Summa® canister, fitted with a 2-hour flow regulator, was attached to the surface tube of each of the three vapor implants. Prior to initiating sample collection, sample identification, canister number, date and start time were recorded on tags attached to each canister and in a bound field note book. Sampling then proceeded by fully opening the flow control valve on each canister in turn. Immediately after opening the flow control valve on a

canister, the initial vacuum (inches of mercury) was recorded in the field book and on the sample tag. When the vacuum level in the canister was between 5 and 8 inches of mercury (approx 2 hours), the flow controller valve was closed, and the final vacuum recorded in the field notebook and on the sample tag.

The soil gas Sample identification, date, start time, start vacuum, end time and end vacuum were recorded on tags attached to each canister and on a sample log sheet (Attachment D). Samples were submitted to Phoenix for laboratory analysis of VOCs EPA Method TO-15.

### Chemical Analysis

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 Phoenix Environmental Laboratories
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Phoenix Environmental Laboratories
Chemical Analytical Methods	Soil analytical methods: <ul style="list-style-type: none"> <li>• TAL Metals by EPA Method 6010C (rev. 2007);</li> <li>• VOCs by EPA Method 8260C (rev. 2006);</li> <li>• SVOCs by EPA Method 8270D (rev. 2007);</li> <li>• Pesticides by EPA Method 8081B (rev. 2000);</li> <li>• PCBs by EPA Method 8082A (rev. 2000);</li> </ul> Groundwater analytical methods: <ul style="list-style-type: none"> <li>• TAL Metals by EPA Method 6010C (rev. 2007);</li> <li>• VOCs by EPA Method 8260C (rev. 2006);</li> <li>• SVOCs by EPA Method 8270D (rev. 2007);</li> <li>• Pesticides by EPA Method 8081B (rev. 2000);</li> <li>• PCBs by EPA Method 8082A (rev. 2000);</li> </ul> Soil vapor analytical methods: <ul style="list-style-type: none"> <li>• VOCs by TO-15 VOC parameters..</li> </ul>

## **Results of Chemical Analyses**

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 2 through 11, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Attachment E.

## 5.0 ENVIRONMENTAL EVALUATION

### 5.1 Geological and Hydrogeological Conditions

#### Stratigraphy

Subsurface soil at the Site consisted of historic fill, which was primarily comprised of brick, concrete, wood and other debris in a brown silty-sand matrix. The layer of historic fill extended to a depth ranging from ground surface to approximately three feet below grade. Native soil consisting of brown sand is present below the historic fill layer.

#### Hydrogeology

A table of water level data for all monitor wells is included in Table 12. The average depth to groundwater is 11 feet below grade and the range in depth is 10.03 to 12.34 feet below grade. A map of groundwater level elevations with groundwater contours and inferred flow lines is shown in Figure 9. Groundwater flow is from south to north.

### 5.2 Soil Chemistry

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Tables 2 through 5. Results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) as presented in 6NYCRR Part 375-6.8 and CP51. A copy of the laboratory report is provided in Attachment E. Figure 6 shows the location and posts the values for soil/fill that exceeds UUSCOs and RRSCOs.

Soil/fill samples collected during the RI showed no detectable concentrations of VOCs. Six SVOCs including benzo(a)anthracene (max. of 3,300 µg/Kg), benzo(a)pyrene (max. of 2,900 µg/Kg), benzo(b)fluoranthene (max. of 4,300 µg/Kg), benzo-(k)fluoranthene (max. of 1,600 µg/Kg), chrysene (max. of 3,500 µg/Kg), and indeno(1,2,3-cd)pyrene (max. of 1,100 µg/Kg), were detected above their respective Restricted Residential SCOs within all three shallow soil samples. The SVOCs detected above Unrestricted/Restricted Residential SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Three pesticides 4,4'-DDE (34 µg/Kg), 4,4'-DDT (max. of 140 µg/Kg), and dieldrin (11 µg/Kg) were detected above Unrestricted Use SCOs

in two of the three shallow soil samples collected. One pesticide, 4,4'-DDD (3.6 µg/Kg), was detected in one deep soil sample (SB2). Chlordane was also detected at 220 µg/Kg. All pesticide concentrations were well below Restricted Residential SCOs. One PCB, PCB-1260, was detected above Unrestricted Use SCOs in two of the three shallow soil samples, at a maximum concentration of 130 µg/Kg. Five metals including barium (max. of 642 µg/Kg), copper (max. of 97.7 µg/Kg), lead (max. of 967 µg/Kg), mercury (max. of 1.15 µg/Kg) and zinc (max. of 537 µg/Kg) exceeded Unrestricted Use SCOs in all three shallow soil samples. Of these metals, barium, lead, and mercury also exceeded Restricted Residential SCOs, in all three shallow samples. Zinc was detected in one deep soil sample, SB2, above Unrestricted Use SCOs at a concentration of 190 µg/Kg. No VOCs, SVOCs, PCBs, or pesticides were detected above Unrestricted Use SCOs within two of the three deep soil samples collected at the Site. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.

### 5.3 Groundwater Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Tables 6 through 10. Figure 7 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

Groundwater samples collected during the RI showed the presence of three VOCs above GQSs within one of the monitoring wells and included cis-1,2-dichloroethene (350 µg/L), tetrachloroethene (21 µg/L), and trichloroethene (31 µg/L). No VOCs were identified in any of the soil samples collected on Site and are not associated with known historical uses of the property. Several SVOCs were detected in one or more of the three monitoring wells, but only five of the SVOCs including benzo(a)anthracene, benzo(b)fluoranthene, benzo-(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were detected at a concentration above GQS. One pesticide, 4,4'-DDT, was detected slightly above GQS at a concentration of 0.15 µg/L. PCBs were not detected. The metals including iron, lead (36 µg/L), magnesium, manganese, and sodium were detected above their respective GQS in one or more dissolved groundwater samples.

#### **5.4 Soil Vapor Chemistry**

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 11.

Figure 8 shows the location and posts the values for soil vapor samples with detected concentrations.

Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at low to moderate concentrations. Tetrachloroethylene (max. of 2.17  $\mu\text{g}/\text{m}^3$ ), trichloroethylene (max. of 1.88  $\mu\text{g}/\text{m}^3$ ), and carbon tetrachloride (max. of 0.566  $\mu\text{g}/\text{m}^3$ ) were detected in all three soil vapor samples. 1,1,1-trichloroethane was detected in one of the three samples at a concentration of 1.14  $\mu\text{g}/\text{m}^3$ . The PCE, TCE, carbon tetrachloride, and 1,1,1-TCA concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs (BTEX) ranged from approximately 40.48  $\mu\text{g}/\text{m}^3$  to 48.56  $\mu\text{g}/\text{m}^3$ . Overall the highest reported concentrations were for acetone (maximum of 2,610  $\mu\text{g}/\text{m}^3$ ) and ethanol (maximum of 1,520  $\mu\text{g}/\text{m}^3$ ).

#### **5.5 Prior Activity**

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

#### **5.6 Impediments to Remedial Action**

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

# **TABLES**

Table 1  
82 Throop Avenue,  
Brooklyn, NY  
Soil Boring / Well Information

SAMPLE ID	Date	Total Depth (ft)	Diameter (in)	Construction Materials	Screen Length (ft)	DTW (ft)
B1	5/13/2013	10	2	Geoprobe	-	-
B2	5/13/2013	10	2	Geoprobe	-	-
B3	5/13/2013	10	2	Geoprobe	-	-
MW1	5/14/2013	18	1	PVC	10.00	10.03
MW2	5/14/2013	18	1	PVC	10.00	12.34
MW3	5/14/2013	18	1	PVC	10.00	10.87

TABLE 2  
82 Throop Avenue,  
Brooklyn, New York  
Soil Analytical Results  
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1				SB2				SB3				Duplicate	
			(0-2') µg/Kg		(8-10') µg/Kg		(0-2') µg/Kg		(8-10') µg/Kg		(0-2') µg/Kg		(8-10') µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,1,1-Trichloroethane	680	100,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,1,2,2-Tetrachloroethane			ND	3.2	ND	88	ND	3.3	ND	4	ND	3.4	ND	3.8	ND	5.7
1,1,2-Trichloroethane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,1-Dichloroethane	270	26,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,1-Dichloroethene	330	100,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,1-Dichloropropene			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,2,3-Trichlorobenzene			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,2,3-Trichloropropane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,2,4-Trichlorobenzene			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,2,4-Trimethylbenzene	3,600	52,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,2-Dibromo-3-chloropropane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,2-Dichlorobenzene	1,100	100,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,2-Dichloroethane	20	3,100	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,2-Dichloropropane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,3,5-Trimethylbenzene	8,400	52,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,3-Dichlorobenzene	2,400	4,900	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,3-Dichloropropane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
1,4-Dichlorobenzene	1,600	13,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
2,2-Dichloropropane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
2-Chlorotoluene			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
2-Hexanone (Methyl Butyl Ketone)			ND	26	ND	740	ND	27	ND	33	ND	28	ND	32	ND	47
2-Isopropyltoluene			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
4-Chlorotoluene			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
4-Methyl-2-Pentanone			ND	26	ND	740	ND	27	ND	33	ND	28	ND	32	ND	47
Acetone	50	100,000	ND	26	ND	2900	ND	27	ND	33	ND	28	ND	32	ND	47
Acrylonitrile			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Benzene	60	4,800	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Bromobenzene			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Bromochloromethane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Bromodichloromethane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Bromoform			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Bromomethane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Carbon Disulfide			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Carbon tetrachloride	760	2,400	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Chlorobenzene	1,100	100,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Chloroethane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Chloroform	370	49,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Chloromethane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
cis-1,2-Dichloroethene	250	100,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
cis-1,3-Dichloropropene			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Dibromochloromethane			ND	3.2	ND	88	ND	3.3	ND	4	ND	3.4	ND	3.8	ND	5.7
Dichlorodifluoromethane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Ethylbenzene	1,000	41,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Hexachlorobutadiene			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Isopropylbenzene			ND	5.3	220	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
m,p-Xylenes	260	100,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Methyl Ethyl Ketone (2-Butanone)	120	100,000	ND	32	ND	680	ND	33	ND	40	ND	34	ND	38	ND	57
Methyl t-butyl ether (MTBE)	930	100,000	ND	11	ND	280	ND	11	ND	13	ND	11	ND	13	ND	19
Methylene chloride	50	100,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Naphthalene	12,000	100,000	ND	5.3	150	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
n-Butylbenzene	12,000	100,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
n-Propylbenzene	3,900	100,000	ND	5.3	310	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
o-Xylene	260	100,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
p-Isopropyltoluene			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
sec-Butylbenzene	11,000	100,000	ND	5.3	410	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Styrene			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
tert-Butylbenzene	5,900	100,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Tetrachloroethene	1,300	19,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Tetrahydrofuran (THF)			ND	11	ND	280	ND	11	ND	13	ND	11	ND	13	ND	19
Toluene	700	100,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Total Xylenes			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
trans-1,2-Dichloroethene	190	100,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
trans-1,3-Dichloropropene			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
trans-1,4-dichloro-2-butene			ND	11	ND	280	ND	11	ND	13	ND	11	ND	13	ND	19
Trichloroethene	470	21,000	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Trichlorofluoromethane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Trichlorotrifluoroethane			ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Vinyl Chloride	20	900	ND	5.3	ND	150	ND	5.4	ND	6.7	ND	5.7	ND	6.3	ND	9.4
Total BTEX Concentration			<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Total VOCs Concentration			<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Notes:

\*\* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not-detected

RL - Reporting Limit

**Bold/highlighted**- Indicated exceedance of the NYSDEC UUSCO Guidance Value

**Bold/highlighted**- Indicated exceedance of the NYSDEC RRSO Guidance Value

TABLE 3  
82 Throop Avenue,  
Brooklyn, New York  
Soil Analytical Results  
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1				SB2				SB3				Duplicate	
			(0-2')		(8-10')		(0-2')		(8-10')		(0-2')		(8-10')		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
1,2,4-Trichlorobenzene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
1,2-Dichlorobenzene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
1,2-Diphenylhydrazine			ND	760	ND	370	ND	400	ND	370	ND	390	ND	380	ND	380
1,3-Dichlorobenzene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
1,4-Dichlorobenzene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
2,4,5-Trichlorophenol			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
2,4,6-Trichlorophenol			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
2,4-Dichlorophenol			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
2,4-Dimethylphenol			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
2,4-Dinitrophenol			ND	1200	ND	600	ND	640	ND	590	ND	620	ND	610	ND	600
2,4-Dinitrotoluene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
2,6-Dinitrotoluene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
2-Chloronaphthalene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
2-Chlorophenol			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
2-Methylnaphthalene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
2-Methylphenol (o-cresol)	330	100,000	ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
2-Nitroaniline			ND	1200	ND	600	ND	640	ND	590	ND	620	ND	610	ND	600
2-Nitrophenol			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
3&4-Methylphenol (m&p-cresol)			ND	760	ND	370	ND	400	ND	370	ND	390	ND	380	ND	380
3,3'-Dichlorobenzidine			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
3-Nitroaniline			ND	1200	ND	600	ND	640	ND	590	ND	620	ND	610	ND	600
4,6-Dinitro-2-methylphenol			ND	2,200	ND	1,100	ND	1,200	ND	1,100	ND	1,100	ND	1,100	ND	1,100
4-Bromophenyl phenyl ether			ND	760	ND	370	ND	400	ND	370	ND	390	ND	380	ND	380
4-Chloro-3-methylphenol			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
4-Chloroaniline			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
4-Chlorophenyl phenyl ether			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
4-Nitroaniline			ND	1200	ND	600	ND	640	ND	590	ND	620	ND	610	ND	600
4-Nitrophenol			ND	2,200	ND	1,100	ND	1,200	ND	1,100	ND	1,100	ND	1,100	ND	1,100
Acenaphthene	20,000	100,000	ND	530	ND	260	360	280	ND	260	ND	270	ND	270	ND	260
Acenaphthylene	100,000	100,000	ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	300	260
Acetophenone			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Aniline			ND	2,200	ND	1,100	ND	1,200	ND	1,100	ND	1,100	ND	1,100	ND	1,100
Anthracene	100,000	100,000	890	530	ND	260	1,100	280	ND	260	490	270	ND	270	600	260
Benz(a)anthracene	1,000	1,000	3,300	530	ND	260	3,100	280	510	260	2,300	270	ND	270	2,200	260
Benzo(a)pyrene	1,000	1,000	2,900	530	ND	260	2,700	280	370	260	2,100	270	ND	270	2,000	260
Benzo(b)fluoranthene	1,000	1,000	4,300	530	ND	260	4,000	280	480	260	3,100	270	ND	270	2,700	260
Benzo(ghi)perylene	100,000	100,000	1,200	530	ND	260	970	280	ND	260	650	270	ND	270	760	260
Benzo(k)fluoranthene	800	1,000	1,600	530	ND	260	1,300	280	ND	260	1,100	270	ND	270	1,100	260
Benzoic acid			ND	2,200	ND	1,100	ND	1,200	ND	1,100	ND	1,100	ND	1,100	ND	1,100
Benzyl butyl phthalate			ND	530	ND	260	570	280	ND	260	500	270	ND	270	ND	260
Bis(2-chloroethoxy)methane			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Bis(2-chloroethyl)ether			ND	760	ND	370	ND	400	ND	370	ND	390	ND	380	ND	380
Bis(2-chloroisopropyl)ether			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Bis(2-ethylhexyl)phthalate			1,200	530	ND	260	840	280	ND	260	360	270	ND	270	ND	260
Carbazole			ND	1,100	ND	560	830	600	ND	560	ND	560	ND	560	ND	570
Chrysene	1,000	1,000	3,500	530	ND	260	3,300	280	500	260	2,400	270	ND	270	2,100	260
Dibenz(a,h)anthracene	330	330	ND	530	ND	260	310	280	ND	260	ND	270	ND	270	ND	260
Dibenzofuran	7,000	59,000	ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Diethyl phthalate			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Dimethylphthalate			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Di-n-butylphthalate			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Di-n-octylphthalate			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Fluoranthene	100,000	100,000	5,600	530	310	260	5,900	280	1,200	260	3,900	270	ND	270	4,000	260
Fluorene	30,000	100,000	ND	530	ND	260	410	280	ND	260	ND	270	ND	270	ND	260
Hexachlorobenzene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Hexachlorobutadiene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Hexachlorocyclopentadiene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Hexachloroethane			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Indeno(1,2,3-cd)pyrene	500	500	1,100	530	ND	260	900	280	ND	260	630	270	ND	270	700	260
Isophorone			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Naphthalene	12,000	100,000	ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Nitrobenzene			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
N-Nitrosodimethylamine			ND	760	ND	370	ND	400	ND	370	ND	390	ND	380	ND	380
N-Nitrosodi-n-propylamine			ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
N-Nitrosodiphenylamine			ND	760	ND	370	ND	400	ND	370	ND	390	ND	380	ND	380
Pentachloronitrobenzene			ND	760	ND	370	ND	400	ND	370	ND	390	ND	380	ND	380
Pentachlorophenol	800	2,400	ND	760	ND	370	ND	400	ND	370	ND	390	ND	380	ND	380
Phenanthrene	100,000	100,000	4,300	530	ND	260	5,300	280	1,100	260	2,300	270	ND	270	2,500	260
Phenol	330	100,000	ND	530	ND	260	ND	280	ND	260	ND	270	ND	270	ND	260
Pyrene	100,000	100,000	5,200	530	610	260	5,600	280	970	260	3,600	270	ND	270	3,700	260
Pyridine			ND	760	ND	370	ND	400	ND	370	ND	390	ND	380	ND	380

Notes:

\*\* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not-detected

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 4  
82 Throop Avenue,  
Brooklyn, New York  
Soil Analytical Results  
Pesticides PCBs

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1				SB2				SB3				Duplicate	
			(0-2') µg/Kg		(8-10') µg/Kg		(0-2') µg/Kg		(8-10') µg/Kg		(0-2') µg/Kg		(8-10') µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
4,4' -DDD	3.3	2,600	ND*	36	ND	2.2	ND*	12	<b>3.6</b>	2.2	ND*	11	ND	2.3	ND*	11
4,4' -DDE	3.3	1,800	ND*	36	ND	2.2	<b>34</b>	12	ND	2.2	ND*	11	ND	2.3	ND*	26
4,4' -DDT	3.3	1,700	<b>54</b>	36	ND	2.2	<b>140</b>	12	<b>3</b>	2.2	ND*	61	ND	2.3	ND*	48
a-BHC	20	97	ND*	18	ND	3.6	ND*	19	ND	3.6	ND*	18	ND	3.7	ND*	18
Alachlor			ND*	18	ND	3.6	ND*	19	ND	3.6	ND*	18	ND	3.7	ND*	18
Aldrin	5	19	ND*	5.7	ND	1.1	ND*	6	ND	1.1	ND*	5.7	ND	1.2	ND*	5.6
b-BHC	36	72	ND*	18	ND	3.6	ND*	19	ND	3.6	ND*	18	ND	3.7	ND*	18
Chlordane			<b>220</b>	57	ND	11	<b>150</b>	60	ND	11	ND*	130	ND	12	ND*	240
d-BHC	40	100,000	ND*	18	ND	3.6	ND*	19	ND	3.6	ND*	18	ND	3.7	ND*	18
Dieldrin	5	39	ND*	5.7	ND	1.1	<b>11</b>	6	ND	1.1	ND*	5.7	ND	1.2	ND*	5.6
Endosulfan I	2,400	4,800	ND*	18	ND	3.6	ND*	19	ND	3.6	ND*	18	ND	3.7	ND*	18
Endosulfan II	2,400	4,800	ND*	36	ND	7.2	ND*	38	ND	7.1	ND*	37	ND	7.4	ND*	36
Endosulfan sulfate	2,400	4,800	ND*	36	ND	7.2	ND*	38	ND	7.1	ND*	37	ND	7.4	ND*	36
Endrin	14	2,200	ND*	36	ND	7.2	ND*	38	ND	7.1	ND*	37	ND	7.4	ND*	36
Endrin aldehyde			ND*	36	ND	7.2	ND*	38	ND	7.1	ND*	37	ND	7.4	ND*	36
Endrin ketone			ND*	36	ND	7.2	ND*	38	ND	7.1	ND*	37	ND	7.4	ND*	36
g-BHC	100	280	ND*	5.7	ND	1.1	ND*	6	ND	1.1	ND*	5.7	ND	1.2	ND*	5.6
Heptachlor	42	420	ND*	11	ND	2.2	ND*	12	ND	2.2	ND*	11	ND	2.3	ND*	11
Heptachlor epoxide			ND*	18	ND	3.6	ND*	19	ND	3.6	ND*	18	ND	3.7	ND*	18
Methoxychlor			ND*	180	ND	36	ND*	190	ND	36	ND*	180	ND	37	ND*	180
Toxaphene			ND*	180	ND	36	ND*	190	ND	36	ND*	180	ND	37	ND*	180
PCB-1016	100	1,000	ND	76	ND	75	ND	79	ND	74	ND	76	ND	77	ND	74
PCB-1221	100	1,000	ND	76	ND	75	ND	79	ND	74	ND	76	ND	77	ND	74
PCB-1232	100	1,000	ND	76	ND	75	ND	79	ND	74	ND	76	ND	77	ND	74
PCB-1242	100	1,000	ND	76	ND	75	ND	79	ND	74	ND	76	ND	77	ND	74
PCB-1248	100	1,000	ND	76	ND	75	ND	79	ND	74	ND	76	ND	77	ND	74
PCB-1254	100	1,000	ND	76	ND	75	ND	79	ND	74	ND	76	ND	77	ND	74
PCB-1260	100	1,000	<b>100</b>	76	ND	75	<b>130</b>	79	ND	74	<b>120</b>	76	ND	77	<b>84</b>	74
PCB-1262	100	1,000	ND	76	ND	75	ND	79	ND	74	ND	76	ND	77	ND	74
PCB-1268	100	1,000	ND	76	ND	75	ND	79	ND	74	ND	76	ND	77	ND	74

**Notes:**

\* Due to matrix interference from non target compounds in the sample an elevated RL was reported.

\*\* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Non-Detect

**Bold/highlighted-** Indicated exceedance of the NYSDEC UUSCO Guidance Value

**Bold/highlighted-** Indicated exceedance of the NYSDEC RRSO Guidance Value

TABLE 5  
82 Throop Avenue,  
Brooklyn, New York  
Soil Analytical Results  
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1				SB2				SB3				Duplicate	
			(0-2') µg/Kg		(8-10') µg/Kg		(0-2') µg/Kg		(8-10') µg/Kg		(0-2') µg/Kg		(8-10') µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			8,180	51	8,580	54	8,700	63	8,250	59	9,820	60	10,500	56	6,580	58
Antimony			BRL	3.4	BRL	3.6	BRL	4.2	BRL	3.9	BRL	4	BRL	3.7	BRL	3.9
Arsenic	13	16	7.4	0.7	1.2	0.7	9.2	0.8	3.7	0.8	5.7	0.8	2.4	0.7	4.3	0.8
Barium	350	350	398	0.34	36.4	0.36	642	0.42	85.2	0.39	449	0.4	36.6	0.37	278	0.39
Beryllium	7.2	14	0.49	0.27	0.39	0.29	0.46	0.33	0.42	0.31	0.44	0.32	0.38	0.3	0.32	0.31
Cadmium	2.5	2.5	1.42	0.34	BRL	0.36	1.62	0.42	0.76	0.39	1.3	0.4	BRL	0.37	0.83	0.39
Calcium			22,600	51	1,220	5.4	27,400	63	23,400	59	16,300	60	899	5.6	18,300	58
Chromium			46.4	0.34	14.9	0.36	19.3	0.42	22.2	0.39	22.2	0.4	15.1	0.37	17.6	0.39
Cobalt			5.91	0.34	4.39	0.36	5.57	0.42	5.03	0.39	5.64	0.4	4.67	0.37	5	0.39
Copper	50	270	97.7	0.34	14	0.36	55.6	0.42	42.4	0.39	60.6	0.4	13.2	0.37	53.8	0.39
Iron			32,600	51	9,520	5.4	25,200	63	16,300	59	17,600	60	12,700	56	13,000	58
Lead	63	400	451	3.4	14.8	0.36	967	4.2	51.8	0.39	583	4	5.6	0.37	330	3.9
Magnesium			3,170	5.1	2,170	5.4	3,900	6.3	4,020	5.9	3,190	6	2,080	5.6	2,760	5.8
Manganese	1,600	2,000	325	3.4	135	0.36	353	4.2	227	3.9	247	4	244	3.7	218	3.9
Mercury	0.18	0.81	1.15	0.07	BRL	0.07	0.44	0.07	0.11	0.08	0.86	0.07	BRL	0.07	1.27	0.07
Nickel	30	140	25.4	0.34	10.6	0.36	15.3	0.42	13.6	0.39	16.1	0.4	10.8	0.37	15.4	0.39
Potassium			1,050	5.1	933	5.4	1,110	6.3	1,870	5.9	1,110	6	874	5.6	904	5.8
Selenium	3.9	36	BRL	1.4	BRL	1.4	BRL	1.7	BRL	1.6	BRL	1.6	BRL	1.5	BRL	1.6
Silver	2	36	BRL	0.34	BRL	0.36	BRL	0.42	BRL	0.39	BRL	0.4	BRL	0.37	BRL	0.39
Sodium			355	5.1	72.6	5.4	2,930	6.3	137	5.9	157	6	55.6	5.6	240	5.8
Thallium			BRL	0.5	BRL	0.6	BRL	0.7	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6
Vanadium			31.7	0.34	21.9	0.36	27.8	0.42	39.5	0.39	27.8	0.4	26.1	0.37	22	0.39
Zinc	109	2,200	378	3.4	26.4	0.36	537	4.2	190	3.9	417	4	27.8	0.37	253	3.9

Notes:

\*\* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

BRL - Below Reporting Limit

**Bold/highlighted-** Indicated exceedance of the NYSDEC UUSCO Guidance Value

**Bold/highlighted-** Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 6  
82 Throop Avenue,  
Brooklyn, New York  
Groundwater Analytical Results  
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards µg/L	MW1		MW2		MW3		Duplicate	
		µg/L		µg/L		µg/L		µg/L	
1,1,1,2-Tetrachloroethane	5	ND	1	ND	1	ND	1	ND	1
1,1,1-Trichloroethane	5	ND	1	ND	1	ND	1	ND	1
1,1,2,2-Tetrachloroethane	5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,1,2-Trichloroethane	1	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethane	5	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethene	5	ND	1	ND	1	ND	1	ND	1
1,1-Dichloropropene		ND	1	ND	1	ND	1	ND	1
1,2,3-Trichlorobenzene		ND	1	ND	1	ND	1	ND	1
1,2,3-Trichloropropane	0.04	ND	1	ND	1	ND	1	ND	1
1,2,4-Trichlorobenzene		ND	1	ND	1	ND	1	ND	1
1,2,4-Trimethylbenzene	5	ND	1	ND	1	ND	1	ND	1
1,2-Dibromo-3-chloropropane	0.04	ND	1	ND	1	ND	1	ND	1
1,2-Dichlorobenzene	5	ND	1	ND	1	ND	1	ND	1
1,2-Dichloroethane	0.6	ND	1	ND	1	ND	1	ND	1
1,2-Dichloropropane	0.94	ND	0.6	ND	0.6	ND	0.6	ND	0.6
1,2-Dibromoethane		ND	1	ND	1	ND	1	ND	1
1,3,5-Trimethylbenzene	5	ND	1	ND	1	ND	1	ND	1
1,3-Dichlorobenzene	5	ND	1	ND	1	ND	1	ND	1
1,3-Dichloropropane	5	ND	1	ND	1	ND	1	ND	1
1,4-Dichlorobenzene	5	ND	1	ND	1	ND	1	ND	1
2,2-Dichloropropane	5	ND	1	ND	1	ND	1	ND	1
2-Chlorotoluene	5	ND	1	ND	1	ND	1	ND	1
2-Hexanone (Methyl Butyl Ketone)		ND	5	ND	5	ND	5	ND	5
2-Isopropyltoluene	5	ND	1	ND	1	ND	1	ND	1
4-Chlorotoluene	5	ND	1	ND	1	ND	1	ND	1
4-Methyl-2-Pentanone		ND	5	ND	5	ND	5	ND	5
Acetone		ND	25	ND	25	ND	25	ND	25
Acrylonitrile	5	ND	5	ND	5	ND	5	ND	5
Benzene	1	ND	0.7	ND	0.7	ND	0.7	ND	0.7
Bromobenzene	5	ND	1	ND	1	ND	1	ND	1
Bromochloromethane	5	ND	1	ND	1	ND	1	ND	1
Bromodichloromethane		ND	0.5	ND	0.5	ND	0.5	ND	0.5
Bromoform		ND	1	ND	1	ND	1	ND	1
Bromomethane	5	ND	1	ND	1	ND	1	ND	1
Carbon Disulfide	60	ND	5	ND	5	ND	5	ND	5
Carbon tetrachloride	5	ND	1	ND	1	ND	1	ND	1
Chlorobenzene	5	ND	1	ND	1	ND	1	ND	1
Chloroethane	5	ND	1	ND	1	ND	1	ND	1
Chloroform	7	ND	1	ND	1	ND	1	ND	1
Chloromethane	60	ND	1	ND	1	ND	1	ND	1
cis-1,2-Dichloroethene	5	ND	1	ND	1	350	20	290	20
cis-1,3-Dichloropropene		ND	0.4	ND	0.4	ND	0.4	ND	0.4
Dibromochloromethane		ND	0.5	ND	0.5	ND	0.5	ND	0.5
Dibromomethane	5	ND	1	ND	1	ND	1	ND	1
Dichlorodifluoromethane	5	ND	1	ND	1	ND	1	ND	1
Ethylbenzene	5	ND	1	ND	1	ND	1	ND	1
Hexachlorobutadiene	0.5	ND	0.4	ND	0.4	ND	0.4	ND	0.4
Isopropylbenzene	5	2	1	ND	1	ND	1	ND	1
m&p-Xylenes	5	ND	1	ND	1	ND	1	ND	1
Methyl Ethyl Ketone (2-Butanone)		ND	5	ND	5	ND	5	ND	5
Methyl t-butyl ether (MTBE)	10	ND	1	ND	1	ND	1	ND	1
Methylene chloride	5	ND	1	ND	1	ND	1	ND	1
Naphthalene	10	1.4	1	ND	1	ND	1	ND	1
n-Butylbenzene	5	ND	1	ND	1	ND	1	ND	1
n-Propylbenzene	5	ND	1	ND	1	ND	1	ND	1
o-Xylene	5	ND	1	ND	1	ND	1	ND	1
p-Isopropyltoluene		ND	1	ND	1	ND	1	ND	1
sec-Butylbenzene	5	3	1	ND	1	ND	1	ND	1
Styrene	5	ND	1	ND	1	ND	1	ND	1
tert-Butylbenzene	5	1.5	1	ND	1	ND	1	ND	1
Tetrachloroethene	5	ND	1	ND	1	21	1	20	1
Tetrahydrofuran (THF)		ND	2.5	ND	2.5	ND	2.5	ND	2.5
Toluene	5	ND	1	ND	1	ND	1	ND	1
Total Xylenes	5	ND	1	ND	1	ND	1	ND	1
trans-1,2-Dichloroethene	5	ND	1	ND	1	1.6	1	1.6	1
trans-1,3-Dichloropropene	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4
trans-1,4-dichloro-2-butene	5	ND	5	ND	5	ND	5	ND	5
Trichloroethene	5	ND	1	ND	1	23	1	23	1
Trichlorofluoromethane	5	ND	1	ND	1	ND	1	ND	1
Trichlorotrifluoroethane		ND	1	ND	1	ND	1	ND	1
Vinyl Chloride	2	ND	1	ND	1	ND	1	ND	1

Notes:

ND - Not detected

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 7  
82 Throop Avenue,  
Brooklyn, New York  
Groundwater Analytical Results  
Semi-Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards µg/L	MW1		MW2		MW3		Duplicate	
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
1,2,4,5-Tetrachlorobenzene		ND	1.6	ND	1.6	ND	1.6	ND	1.6
1,2,4-Trichlorobenzene		ND	5	ND	5	ND	5	ND	5
1,2-Dichlorobenzene		ND	5	ND	5	ND	5	ND	5
1,2-Diphenylhydrazine		ND	5	ND	5	ND	5	ND	5
1,3-Dichlorobenzene		ND	5	ND	5	ND	5	ND	5
1,4-Dichlorobenzene		ND	5	ND	5	ND	5	ND	5
2,4,5-Trichlorophenol	3	ND	10	ND	10	ND	10	ND	10
2,4,6-Trichlorophenol	3	ND	10	ND	10	ND	10	ND	10
2,4-Dichlorophenol		ND	10	ND	10	ND	10	ND	10
2,4-Dimethylphenol		ND	10	ND	10	ND	10	ND	10
2,4-Dinitrophenol		ND	50	ND	50	ND	50	ND	50
2,4-Dinitrotoluene	5	ND	5	ND	5	ND	5	ND	5
2,6-Dinitrotoluene	5	ND	5	ND	5	ND	5	ND	5
2-Chloronaphthalene	10	ND	5	ND	5	ND	5	ND	5
2-Chlorophenol		ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene		ND	5	ND	5	ND	5	ND	5
2-Methylphenol (o-cresol)		ND	10	ND	10	ND	10	ND	10
2-Nitroaniline	5	ND	50	ND	50	ND	50	ND	50
2-Nitrophenol		ND	10	ND	10	ND	10	ND	10
3&4-Methylphenol (m&p-cresol)		ND	10	ND	10	ND	10	ND	10
3,3'-Dichlorobenzidine	5	ND	50	ND	50	ND	50	ND	50
3-Nitroaniline	5	ND	50	ND	50	ND	50	ND	50
4,6-Dinitro-2-methylphenol		ND	50	ND	50	ND	50	ND	50
4-Bromophenyl phenyl ether		ND	5	ND	5	ND	5	ND	5
4-Chloro-3-methylphenol		ND	20	ND	20	ND	20	ND	20
4-Chloroaniline	5	ND	20	ND	20	ND	20	ND	20
4-Chlorophenyl phenyl ether		ND	5	ND	5	ND	5	ND	5
4-Nitroaniline	5	ND	20	ND	20	ND	20	ND	20
4-Nitrophenol		ND	50	ND	50	ND	50	ND	50
Acenaphthene	20	<b>16</b>	0.05	<b>0.16</b>	0.05	ND	0.05	ND	0.05
Acenaphthylene		<b>5.3</b>	0.05	ND	0.05	<b>0.06</b>	0.05	ND	0.05
Acetophenone		ND	5	ND	5	ND	5	ND	5
Aniline		ND	10	ND	10	ND	10	ND	10
Anthracene		ND	5	ND	5	ND	5	ND	5
Benzo(a)anthracene	0.002	<b>0.49</b>	0.04	<b>0.25</b>	0.04	<b>0.7</b>	0.04	<b>0.11</b>	0.04
Benzenzidine	5	ND	50	ND	50	ND	50	ND	50
Benzo(a)pyrene		<b>0.26</b>	0.05	<b>0.22</b>	0.05	<b>0.61</b>	0.05	<b>0.09</b>	0.05
Benzo(b)fluoranthene	0.002	<b>0.35</b>	0.05	<b>0.29</b>	0.05	<b>0.91</b>	0.05	<b>0.14</b>	0.05
Benzo(g,h,i)perylene		ND	3	ND	3	ND	3	ND	3
Benzo(k)fluoranthene	0.002	<b>0.11</b>	0.05	<b>0.12</b>	0.05	<b>0.3</b>	0.05	<b>0.05</b>	0.05
Benzoic Acid		ND	50	ND	50	ND	50	ND	50
Benzyl Butyl phthalate		ND	5	ND	5	ND	5	ND	5
Bis(2-chloroethoxy)methane	5	ND	5	ND	5	ND	5	ND	5
Bis(2-chloroethyl)ether	1	ND	5	ND	5	ND	5	ND	5
Bis(2-chloroisopropyl)ether		ND	5	ND	5	ND	5	ND	5
Bis(2-ethylhexyl)phthalate	5	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Carbazole		ND	5	ND	5	ND	5	ND	5
Chrysene	0.002	<b>0.61</b>	0.05	<b>0.25</b>	0.05	<b>0.74</b>	0.05	<b>0.1</b>	0.05
Dibenzo(a,h)anthracene		<b>0.04</b>	0.01	<b>0.03</b>	0.01	<b>0.1</b>	0.01	ND	0.01
Dibenzofuran		ND	5	ND	5	ND	5	ND	5
Diethylphthalate	50	ND	5	ND	5	ND	5	ND	5
Dimethylphthalate	50	ND	5	ND	5	ND	5	ND	5
Di-n-butylphthalate	50	ND	5	ND	5	ND	5	ND	5
Di-n-octylphthalate	50	ND	5	ND	5	ND	5	ND	5
Fluoranthene	50	ND	5	ND	5	ND	5	ND	5
Hexachlorobenzene	0.04	ND	0.06	ND	0.06	ND	0.06	ND	0.06
Fluorene	50	ND	5	ND	5	ND	5	ND	5
Hexachlorobutadiene	0.5	ND	5	ND	5	ND	5	ND	5
Hexachlorocyclopentadiene	5	ND	5	ND	5	ND	5	ND	5
Hexachloroethane	5	ND	2.4	ND	2.4	ND	2.4	ND	2.4
Indeno(1,2,3-cd)pyrene	0.002	<b>0.12</b>	0.05	<b>0.11</b>	0.05	<b>0.34</b>	0.05	ND	0.05
Isophorone	50	ND	5	ND	5	ND	5	ND	5
Naphthalene	10	ND	5	ND	5	ND	5	ND	5
Nitrobenzene	0.4	ND	5	ND	5	ND	5	ND	5
N-Nitrosodimethylamine		ND	5	ND	5	ND	5	ND	5
N-Nitrosodi-n-propylamine		ND	5	ND	5	ND	5	ND	5
N-Nitrosodiphenylamine	50	ND	5	ND	5	ND	5	ND	5
Pentachloronitrobenzene		ND	0.1	ND	0.1	ND	0.1	ND	0.1
Pentachlorophenol		ND	0.8	ND	0.8	ND	0.8	ND	0.8
Phenanthrene	50	<b>8.7</b>	0.05	<b>0.36</b>	0.05	<b>0.81</b>	0.05	<b>0.14</b>	0.05
Phenol		ND	10	ND	10	ND	10	ND	10
Pyrene	50	<b>5.6</b>	5	ND	5	ND	5	ND	5
Pyridine		ND	0.5	ND	0.5	ND	0.5	ND	0.5

Notes:

ND - Not detected

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 8  
82 Throop Avenue,  
Brooklyn, New York  
Groundwater Analytical Results  
Pesticides/PCBs

Compound	NYSDEC Groundwater Quality Standards µg/L	MW1		MW2		MW3		Duplicate	
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
PCB-1016	0.09	ND	0.05	ND	0.05	ND	0.05	ND	0.05
PCB-1221	0.09	ND	0.05	ND	0.05	ND	0.05	ND	0.05
PCB-1232	0.09	ND	0.05	ND	0.05	ND	0.05	ND	0.05
PCB-1242	0.09	ND	0.05	ND	0.05	ND	0.05	ND	0.05
PCB-1248	0.09	ND	0.05	ND	0.05	ND	0.05	ND	0.05
PCB-1254	0.09	ND	0.05	ND	0.05	ND	0.05	ND	0.05
PCB-1260	0.09	ND	0.05	ND	0.05	ND	0.05	ND	0.05
PCB-1262	0.09	ND	0.05	ND	0.05	ND	0.05	ND	0.05
PCB-1268	0.09	ND	0.05	ND	0.05	ND	0.05	ND	0.05
4,4-DDD	0.3	ND*	5	ND*	0.05	ND*	0.05	ND	0.05
4,4-DDE	0.2	ND*	5	ND*	0.05	ND*	0.05	ND	0.05
4,4-DDT	0.11	ND*	5	<b>0.055</b>	0.05	<b>0.15</b>	0.05	<b>0.043</b>	0.025
a-BHC	0.94	ND*	2.5	ND*	0.12	ND*	0.12	ND	0.12
Alachlor		ND*	7.5	ND*	0.38	ND*	0.38	ND	0.38
Aldrin		ND*	0.15	ND*	0.008	ND*	0.008	ND	0.008
b-BHC	0.04	ND*	0.5	ND*	0.025	ND*	0.025	ND	0.025
Chlordane	0.05	ND*	30	ND*	1.5	ND*	1.5	ND	1.5
d-BHC	0.04	ND*	2.5	ND*	0.12	ND*	0.12	ND	0.12
Dieldrin	0.004	ND*	0.15	ND*	0.008	ND*	0.03	ND	0.008
Endosulfan I		ND*	5	ND*	0.25	ND*	0.25	ND	0.25
Endosulfan II		ND*	5	ND*	0.25	ND*	0.25	ND	0.25
Endosulfan Sulfate		ND*	5	ND*	0.25	ND*	0.25	ND	0.25
Endrin		ND*	5	ND*	0.25	ND*	0.25	ND	0.25
Endrin aldehyde	5	ND*	5	ND*	0.25	ND*	0.25	ND	0.25
Endrin ketone		ND*	5	ND*	0.25	ND*	0.25	ND	0.25
gamma-BHC	0.05	ND*	2.5	ND*	0.12	ND*	0.12	ND	0.12
Heptachlor	0.04	ND*	2.5	ND*	0.12	ND*	0.12	ND	0.12
Heptachlor epoxide	0.03	ND*	2.5	ND*	0.12	ND*	0.12	ND	0.12
Methoxychlor	35	ND*	10	ND*	0.5	ND*	0.5	ND	0.5
Toxaphene		ND*	100	ND*	5	ND*	5	ND	5

Notes:

ND - Non-detect

ND\* - Due to matrix interference from non target compounds in the sample an elevated RL was reported.

**Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard**

Table 9  
82 Throop Avenue,  
Brooklyn, New York  
Groundwater Analytical Results  
TAL Metals

Compound	NYSDEC Groundwater Quality Standards mg/L	MW1		MW2		MW3		Duplicate	
		mg/L		mg/L		mg/L		mg/L	
		Result	RL	Result	RL	Result	RL	Result	RL
Aluminum	NS	<b>2.21</b>	0.01	<b>14.00</b>	0.01	<b>6.07</b>	0.01	<b>2.35</b>	0.01
Antimony	<b>0.003</b>	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.003
Arsenic	<b>0.025</b>	BRL	0.004	<b>0.007</b>	0.004	BRL	0.004	BRL	0.004
Barium	1	<b>0.059</b>	0.002	<b>0.269</b>	0.002	<b>0.133</b>	0.002	<b>0.10</b>	0.002
Beryllium	<b>0.003</b>	BRL	0.001	BRL	0.001	BRL	0.001	BRL	0.001
Cadmium	<b>0.005</b>	BRL	0.001	BRL	0.001	BRL	0.001	BRL	0.001
Calcium	NS	<b>479</b>	0.10	<b>242</b>	0.10	<b>192</b>	0.10	<b>184</b>	0.10
Chromium	0.05	<b>0.004</b>	0.001	<b>0.029</b>	0.001	<b>0.013</b>	0.001	<b>0.006</b>	0.001
Cobalt	NS	BRL	0.002	<b>0.024</b>	0.002	<b>0.009</b>	0.002	<b>0.007</b>	0.002
Copper	0.2	BRL	0.005	<b>0.044</b>	0.005	<b>0.070</b>	0.005	<b>0.047</b>	0.005
Iron	0.5	<b>2.93</b>	0.010	<b>21</b>	0.010	<b>9</b>	0.010	<b>3.29</b>	0.010
Lead	<b>0.025</b>	<b>0.012</b>	0.002	<b>0.2</b>	0.002	<b>0.052</b>	0.002	<b>0.027</b>	0.002
Magnesium	35	<b>58.5</b>	0.010	<b>45.1</b>	0.010	<b>20.10</b>	0.010	<b>19.8</b>	0.010
Manganese	0.3	<b>0.1</b>	0.001	<b>0.43</b>	0.001	<b>1.11</b>	0.001	<b>1</b>	0.001
Mercury	<b>0.0007</b>	BRL	0.0002	BRL	0.0002	BRL	0.0002	BRL	0.0002
Nickel	0.1	<b>0.005</b>	0.001	<b>0.039</b>	0.001	<b>0.022</b>	0.001	<b>0.017</b>	0.001
Potassium	NS	<b>17.3</b>	0.100	<b>20.1</b>	0.100	<b>15.1</b>	0.100	<b>15.0</b>	0.100
Selenium	0.01	BRL	0.010	BRL	0.010	BRL	0.010	BRL	0.010
Silver	0.05	BRL	0.001	BRL	0.001	BRL	0.001	BRL	0.001
Sodium	2	<b>22</b>	0.100	<b>47</b>	0.100	<b>38</b>	0.100	<b>38</b>	0.100
Thallium	<b>0.0005</b>	BRL	0.002	BRL	0.002	BRL	0.002	BRL	0.002
Vanadium	NS	<b>0.016</b>	0.002	<b>0.046</b>	0.002	<b>0.025</b>	0.002	<b>0.010</b>	0.002
Zinc	2	<b>0.009</b>	0.002	<b>0.087</b>	0.002	<b>0.044</b>	0.002	<b>0.021</b>	0.002

**Notes:**

BRL - Below Reporting Limit

NS - No Standard

**Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard**

Table 10  
82 Throop Avenue,  
Brooklyn, New York  
Groundwater Analytical Results  
TAL Filtered Metals

Compound	NYSDEC Groundwater Quality Standards mg/L	MW1		MW2		MW3		Duplicate	
		mg/L		mg/L		mg/L		mg/L	
		Result	RL	Result	RL	Result	RL	Result	RL
Aluminum	NS	<b>0.85</b>	0.01	<b>1.22</b>	0.01	<b>0.56</b>	0.01	<b>0.42</b>	0.01
Antimony	0.003	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.003
Arsenic	0.025	BRL	0.004	BRL	0.004	BRL	0.004	BRL	0.004
Barium	1	<b>0.051</b>	0.002	<b>0.094</b>	0.002	<b>0.07</b>	0.002	<b>0.067</b>	0.002
Beryllium	0.003	BRL	0.001	BRL	0.001	BRL	0.001	BRL	0.001
Cadmium	0.005	BRL	0.001	BRL	0.001	BRL	0.001	BRL	0.001
Calcium	NS	<b>524</b>	0.11	<b>240</b>	0.11	<b>177</b>	0.01	<b>174</b>	0.01
Chromium	0.05	BRL	0.001	<b>0.002</b>	0.001	BRL	0.001	BRL	0.001
Cobalt	NS	BRL	0.001	<b>0.014</b>	0.001	<b>0.006</b>	0.001	<b>0.006</b>	0.001
Copper	0.2	BRL	0.005	<b>0.015</b>	0.005	<b>0.035</b>	0.005	<b>0.035</b>	0.005
Iron	0.5	<b>0.535</b>	0.011	<b>1.26</b>	0.011	<b>0.64</b>	0.011	<b>0.51</b>	0.011
Lead	0.025	<b>0.003</b>	0.002	<b>0.036</b>	0.002	<b>0.006</b>	0.002	<b>0.005</b>	0.002
Magnesium	35	<b>57</b>	0.01	<b>39</b>	0.01	<b>19</b>	0.01	<b>19</b>	0.01
Manganese	0.3	<b>0.184</b>	0.001	<b>0.215</b>	0.001	<b>1.05</b>	0.001	<b>1.020</b>	0.001
Mercury	0.0007	BRL	0.0002	BRL	0.0002	BRL	0.0002	BRL	0.0002
Nickel	0.1	<b>0.004</b>	0.001	<b>0.023</b>	0.001	<b>0.015</b>	0.001	<b>0.015</b>	0.001
Potassium	NS	<b>17</b>	0.1	<b>17</b>	0.1	<b>14</b>	0.1	<b>14</b>	0.1
Selenium	0.01	BRL	0.011	BRL	0.011	BRL	0.011	BRL	0.01
Silver	0.05	BRL	0.001	BRL	0.001	BRL	0.001	BRL	0.001
Sodium	2	<b>21</b>	0.11	<b>41</b>	0.11	<b>36</b>	0.11	<b>35</b>	0.11
Thallium	0.0005	BRL	0.002	BRL	0.002	BRL	0.002	BRL	0.002
Vanadium	NS	<b>0.011</b>	0.002	<b>0.004</b>	0.002	<b>0.003</b>	0.002	BRL	0.002
Zinc	2	<b>0.003</b>	0.002	<b>0.011</b>	0.002	<b>0.011</b>	0.002	<b>0.008</b>	0.002

Notes:

BRL - Below Reporting Limit

NS - No Standard

**Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard**

TABLE 11  
82 Throop Avenue,  
Brooklyn, New York  
Soil Gas - Volatile Organic Compounds

COMPOUNDS	NYSDOH Maximum Sub-Slab Value (µg/m <sup>3</sup> ) <sup>(a)</sup>	NYSDOH Soil Outdoor Background Levels (µg/m <sup>3</sup> ) <sup>(b)</sup>	SG-1 (µg/m <sup>3</sup> )		SG-2 (µg/m <sup>3</sup> )		SG-3 (µg/m <sup>3</sup> )	
			Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			ND	1	ND	1	ND	1
1,1,1-Trichloroethane	100	<2.0 - 2.8	ND	1	ND	1	<b>1.14</b>	1
1,1,2,2-Tetrachloroethane		<1.5	ND	1	ND	1	ND	1
1,1,2-Trichloroethane		<1.0	ND	1	ND	1	ND	1
1,1-Dichloroethane		<1.0	ND	1	ND	1	ND	1
1,1-Dichloroethene		<1.0	ND	1	ND	1	ND	1
1,2,4-Trichlorobenzene		NA	<b>1.48</b>	1	ND	1	ND	1
1,2,4-Trimethylbenzene		<1.0	<b>7.71</b>	1	<b>7.66</b>	1	<b>6.83</b>	1
1,2-Dibromoethane		<1.5	ND	1	ND	1	ND	1
1,2-Dichlorobenzene		<2.0	ND	1	ND	1	ND	1
1,2-Dichloroethane		<1.0	ND	1	ND	1	ND	1
1,2-Dichloropropane			ND	1	ND	1	ND	1
1,2-Dichlorotetrafluoroethane			ND	1	ND	1	ND	1
1,3,5-Trimethylbenzene		<1.0	<b>2.41</b>	1	<b>2.5</b>	1	<b>2.26</b>	1
1,3-Butadiene		NA	ND	1	ND	1	ND	1
1,3-Dichlorobenzene		<2.0	<b>7.03</b>	1	<b>8.05</b>	1	<b>6.19</b>	1
1,4-Dichlorobenzene		NA	ND	1	ND	1	ND	1
1,4-Dioxane			ND	1	ND	1	ND	1
2-Hexanone			ND	1	ND	1	ND	1
4-Ethyltoluene		NA	<b>2.36</b>	1	<b>2.21</b>	1	<b>1.92</b>	1
4-Isopropyltoluene			<b>2.52</b>	1	<b>2.36</b>	1	<b>2.25</b>	1
4-Methyl-2-pentanone			<b>11</b>	1	<b>8.15</b>	1	<b>6.76</b>	1
Acetone		NA	<b>2,610</b>	1	<b>1,790</b>	1	<b>2,420</b>	1
Acrylonitrile			ND	1	ND	1	ND	1
Benzene		<1.6 - 4.7	<b>4.15</b>	1	<b>3.13</b>	1	<b>2.71</b>	1
Benzyl Chloride		NA	ND	1	ND	1	ND	1
Bromodichloromethane		<5.0	ND	1	ND	1	ND	1
Bromoform		<1.0	ND	1	ND	1	ND	1
Bromomethane		<1.0	ND	1	ND	1	ND	1
Carbon Disulfide		NA	<b>1.18</b>	1	<b>2.46</b>	1	<b>17.6</b>	1
Carbon Tetrachloride	5	<3.1	<b>0.566</b>	0.25	<b>0.503</b>	0.25	<b>0.314</b>	0.25
Chlorobenzene		<2.0	ND	1	ND	1	ND	1
Chloroethane		NA	ND	1	ND	1	ND	1
Chloroform		<2.4	ND	1	ND	1	ND	1
Chloromethane		<1.0 - 1.4	<b>3.28</b>	1	<b>3.63</b>	1	<b>1.18</b>	1
cis-1,2-Dichloroethene		<1.0	ND	1	ND	1	ND	1
cis-1,3-Dichloropropene		NA	ND	1	ND	1	ND	1
Cyclohexane		NA	<b>7.6</b>	1	<b>7.95</b>	1	<b>21.2</b>	1
Dibromochloromethane		<5.0	ND	1	ND	1	ND	1
Dichlorodifluoromethane		NA	<b>2.08</b>	1	<b>2.37</b>	1	<b>2.32</b>	1
Ethanol			<b>1,130</b>	1	<b>1,520</b>	1	<b>891</b>	1
Ethyl Acetate		NA	<b>70.2</b>	1	<b>69.1</b>	1	<b>49</b>	1
Ethylbenzene		<4.3	<b>6.99</b>	1	<b>6.25</b>	1	<b>7.25</b>	1
Heptane		NA	<b>10.7</b>	1	<b>8.89</b>	1	<b>11.3</b>	1
Hexachlorobutadiene		NA	ND	1	ND	1	ND	1
Hexane		<1.5	<b>5.07</b>	1	<b>14.4</b>	1	<b>16.1</b>	1
Isopropylalcohol		NA	<b>44</b>	1	<b>62.2</b>	1	<b>53.6</b>	1
Isopropylbenzene			ND	1	ND	1	ND	1
Xylene (m&p)		<4.3	<b>21.6</b>	1	<b>19</b>	1	<b>21.6</b>	1
Methyl Ethyl Ketone			<b>61.3</b>	1	<b>96.7</b>	1	<b>312</b>	1
MTBE		NA	ND	1	ND	1	ND	1
Methylene Chloride		<3.4	<b>4.27</b>	1	<b>5.24</b>	1	<b>4.1</b>	1
n-Butylbenzene			ND	1	ND	1	ND	1
Xylene (o)		<4.3	<b>7.98</b>	1	<b>7.55</b>	1	<b>8.03</b>	1
Propylene		NA	<b>75.7</b>	1	<b>94.4</b>	1	<b>48.2</b>	1
sec-Butylbenzene			ND	1	ND	1	ND	1
Styrene		<1.0	ND	1	ND	1	ND	1
Tetrachloroethene	100		<b>0.813</b>	0.25	<b>0.949</b>	0.25	<b>2.17</b>	0.25
Tetrahydrofuran		NA	<b>3.77</b>	1	<b>1.83</b>	1	<b>24.9</b>	1
Toluene		1.0 - 6.1	<b>14.8</b>	1	<b>12.1</b>	1	<b>17</b>	1
trans-1,2-Dichloroethene		NA	ND	1	ND	1	ND	1
trans-1,3-Dichloropropene		NA	ND	1	ND	1	ND	1
Trichloroethene	5	<1.7	<b>0.376</b>	0.25	<b>1.88</b>	0.25	<b>0.322</b>	0.25
Trichlorofluoromethane		NA	<b>1.12</b>	1	<b>3.14</b>	1	<b>2.75</b>	1
Trichlorotrifluoroethane			ND	1	ND	1	ND	1
Vinyl Chloride		<1.0	ND	0.25	ND	0.25	ND	0.25

Notes:

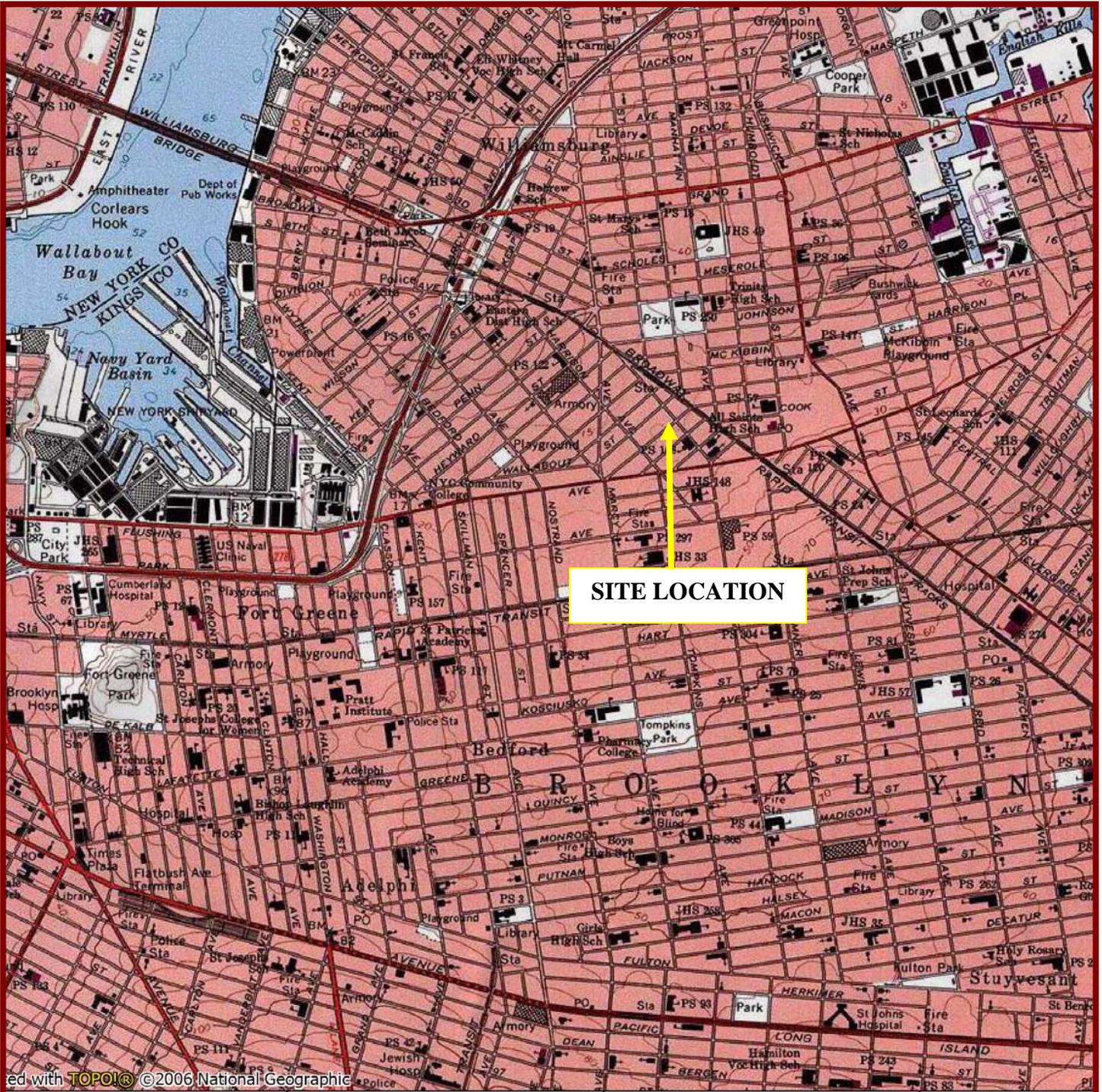
NA: No guidance value or standard available

(a) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, New York State Department of Health.

(b) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005, Summary of Background Levels for Selected Compounds (NYSDOH Database, Outdoor values)

Value detected above NYSDOH Air Guidance Value of 5 µg/m<sup>3</sup>, which according to Soil Vapor/Indoor Air Matrix 1 would require at a minimum, monitoring.

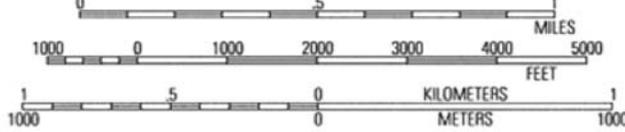
# **FIGURES**



**SITE LOCATION**

ed with **TOPOIG** ©2006 National Geographic

00' W      73°58.000' W      73°57.000' W      WGS84 73°56.000' W



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82 THROOP AVENUE  
BROOKLYN, NEW YORK 11206

FIGURE 1 - SITE LOCATION MAP

GERRY STREET

THROOP AVENUE

LOT 36

LOT 34

LOT 33

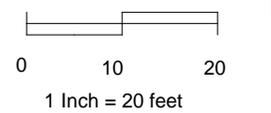
LOT 32

LOT 31

LOT 30



SCALE:



KEY:

--- Property Boundary



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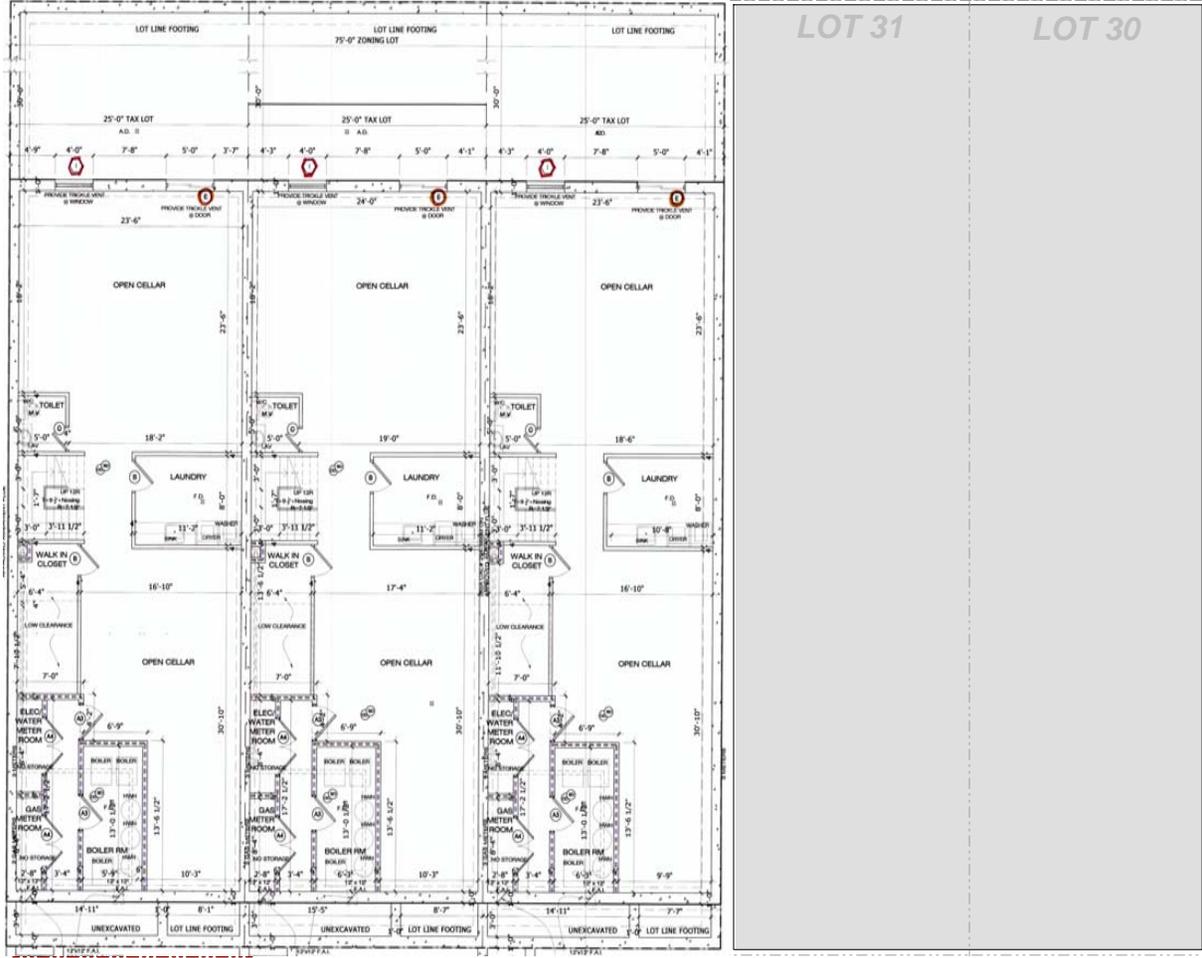
82 THROOP AVENUE  
BROOKLYN, NY 11206

**FIGURE 2**      **SITE PLAN**

LOT 36

GERRY STREET

THROOP AVENUE

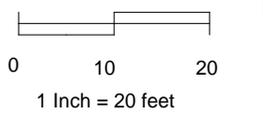


LOT 31

LOT 30



SCALE:



KEY:

--- Property Boundary



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82 THROOP AVENUE  
BROOKLYN, NY 11206

**FIGURE 3** REDEVELOPMENT PLAN



**FIGURE 4**  
**SURROUNDING LAND USE MAP**

82 THROOP AVENUE, BROOKLYN, NY  
 REMEDIAL INVESTIGATION REPORT



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GERRY STREET

THROOP AVENUE

LOT 36

LOT 34

LOT 33

LOT 32

LOT 31

LOT 30

MW3



SB3



SG3

MW2



SB2

SG2



MW1

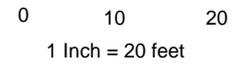


SB1

SG1



SCALE:



KEY:

-  Location of Soil Boring
-  Location of Soil Gas Implant
-  Location of Temporary MW
-  Property Boundary



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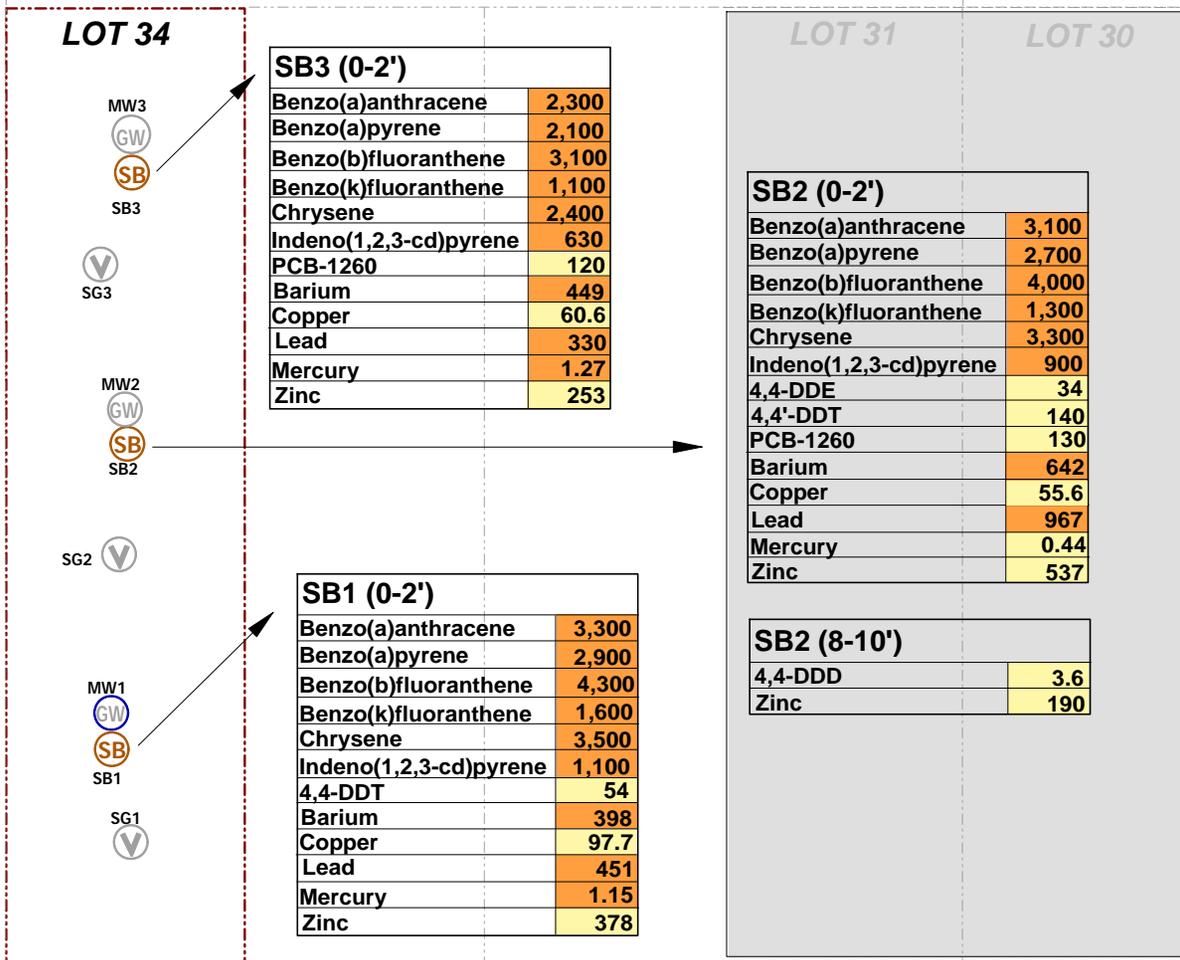
82 THROOP AVENUE  
BROOKLYN, NY 11206

FIGURE 5 SITE SAMPLING LOCATIONS

LOT 36

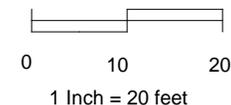
GERRY STREET

THROOP AVENUE



SVOCs/Pesticides/PCBs	ppb
Metals	ppm

SCALE:



KEY:

- Location of Soil Boring
- Location of Soil Gas Implant
- Location of Temporary MW
- Property Boundary
- Exceedence of Restricted Residential SCO
- Exceedence of Unrestricted Use SCO



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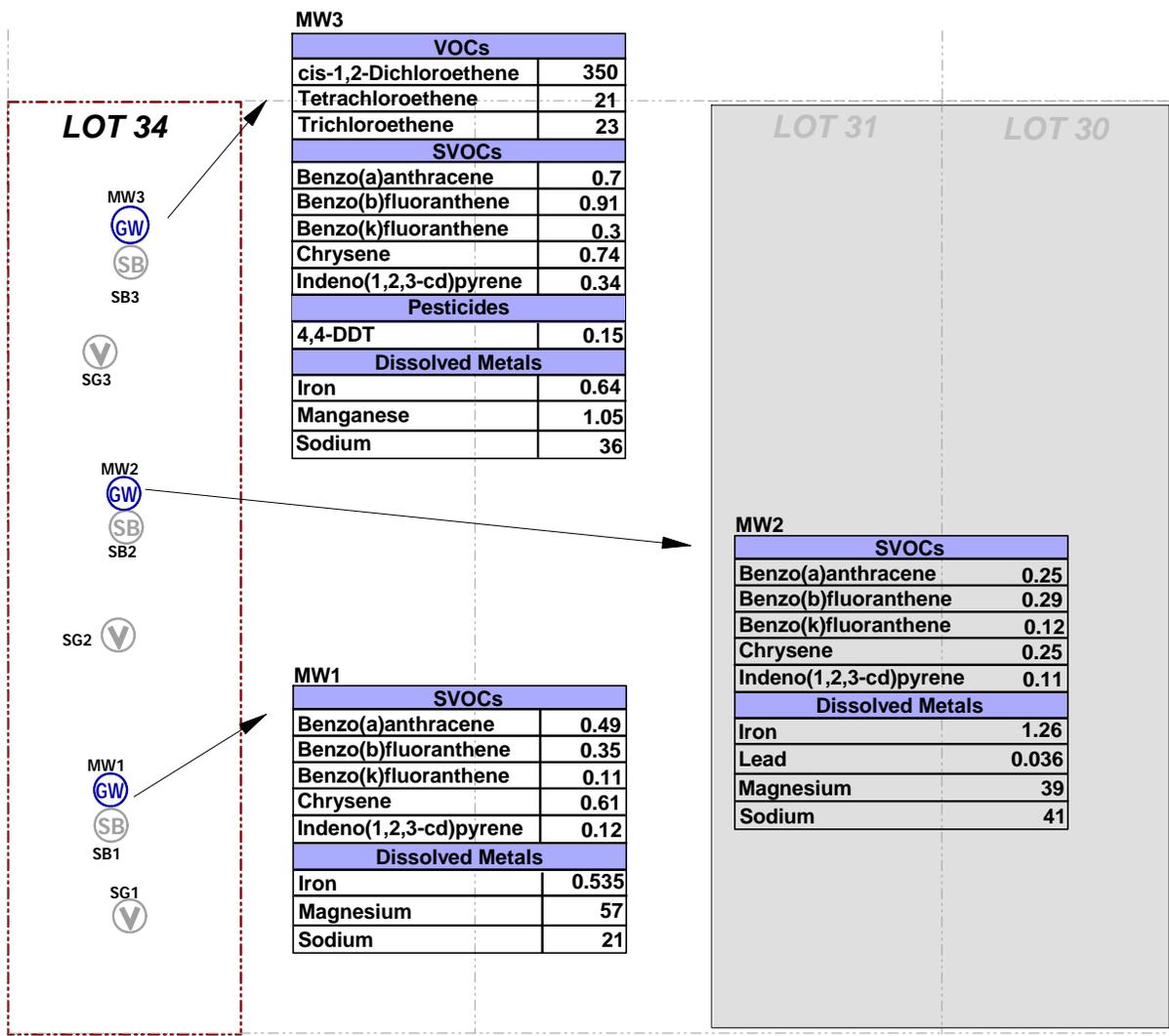
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82 THROOP AVENUE  
BROOKLYN, NY 11206

**FIGURE 6** SITE SAMPLING LOCATIONS

GERRY STREET

THROOP AVENUE



MW3

VOCs	
cis-1,2-Dichloroethene	350
Tetrachloroethene	21
Trichloroethene	23
SVOCs	
Benzo(a)anthracene	0.7
Benzo(b)fluoranthene	0.91
Benzo(k)fluoranthene	0.3
Chrysene	0.74
Indeno(1,2,3-cd)pyrene	0.34
Pesticides	
4,4-DDT	0.15
Dissolved Metals	
Iron	0.64
Manganese	1.05
Sodium	36

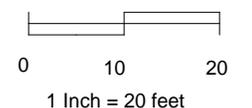
MW1

SVOCs	
Benzo(a)anthracene	0.49
Benzo(b)fluoranthene	0.35
Benzo(k)fluoranthene	0.11
Chrysene	0.61
Indeno(1,2,3-cd)pyrene	0.12
Dissolved Metals	
Iron	0.535
Magnesium	57
Sodium	21

MW2

SVOCs	
Benzo(a)anthracene	0.25
Benzo(b)fluoranthene	0.29
Benzo(k)fluoranthene	0.12
Chrysene	0.25
Indeno(1,2,3-cd)pyrene	0.11
Dissolved Metals	
Iron	1.26
Lead	0.036
Magnesium	39
Sodium	41

SCALE:



KEY:

- Location of Soil Boring
- Location of Soil Gas Implant
- Location of Temporary MW

Property Boundary

SVOCs/Pesticides	ppb
Metals	ppm

Results based on NYSDEC Groundwater Quality Standards

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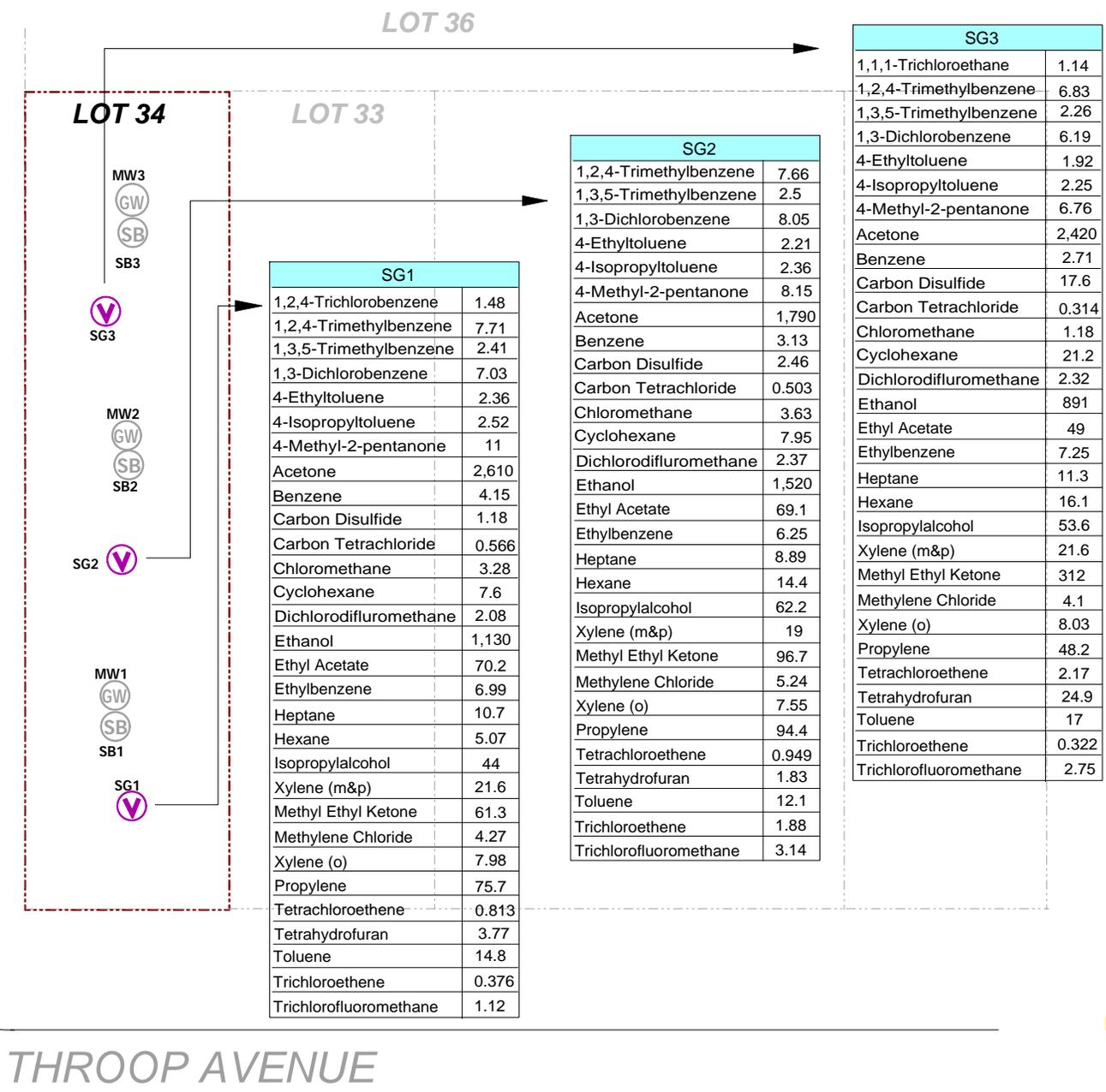
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82 THROOP AVENUE  
BROOKLYN, NY 11206

**FIGURE 7** GROUNDWATER EXCEEDENCES

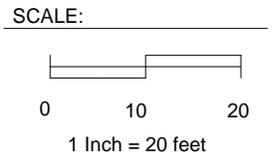
GERRY STREET



SG1	
1,2,4-Trichlorobenzene	1.48
1,2,4-Trimethylbenzene	7.71
1,3,5-Trimethylbenzene	2.41
1,3-Dichlorobenzene	7.03
4-Ethyltoluene	2.36
4-Isopropyltoluene	2.52
4-Methyl-2-pentanone	11
Acetone	2,610
Benzene	4.15
Carbon Disulfide	1.18
Carbon Tetrachloride	0.566
Chloromethane	3.28
Cyclohexane	7.6
Dichlorodifluoromethane	2.08
Ethanol	1,130
Ethyl Acetate	70.2
Ethylbenzene	6.99
Heptane	10.7
Hexane	5.07
Isopropylalcohol	44
Xylene (m&p)	21.6
Methyl Ethyl Ketone	61.3
Methylene Chloride	4.27
Xylene (o)	7.98
Propylene	75.7
Tetrachloroethene	0.813
Tetrahydrofuran	3.77
Toluene	14.8
Trichloroethene	0.376
Trichlorofluoromethane	1.12

SG2	
1,2,4-Trimethylbenzene	7.66
1,3,5-Trimethylbenzene	2.5
1,3-Dichlorobenzene	8.05
4-Ethyltoluene	2.21
4-Isopropyltoluene	2.36
4-Methyl-2-pentanone	8.15
Acetone	1,790
Benzene	3.13
Carbon Disulfide	2.46
Carbon Tetrachloride	0.503
Chloromethane	3.63
Cyclohexane	7.95
Dichlorodifluoromethane	2.37
Ethanol	1,520
Ethyl Acetate	69.1
Ethylbenzene	6.25
Heptane	8.89
Hexane	14.4
Isopropylalcohol	62.2
Xylene (m&p)	19
Methyl Ethyl Ketone	96.7
Methylene Chloride	5.24
Xylene (o)	7.55
Propylene	94.4
Tetrachloroethene	0.949
Tetrahydrofuran	1.83
Toluene	12.1
Trichloroethene	1.88
Trichlorofluoromethane	3.14

SG3	
1,1,1-Trichloroethane	1.14
1,2,4-Trimethylbenzene	6.83
1,3,5-Trimethylbenzene	2.26
1,3-Dichlorobenzene	6.19
4-Ethyltoluene	1.92
4-Isopropyltoluene	2.25
4-Methyl-2-pentanone	6.76
Acetone	2,420
Benzene	2.71
Carbon Disulfide	17.6
Carbon Tetrachloride	0.314
Chloromethane	1.18
Cyclohexane	21.2
Dichlorodifluoromethane	2.32
Ethanol	891
Ethyl Acetate	49
Ethylbenzene	7.25
Heptane	11.3
Hexane	16.1
Isopropylalcohol	53.6
Xylene (m&p)	21.6
Methyl Ethyl Ketone	312
Methylene Chloride	4.1
Xylene (o)	8.03
Propylene	48.2
Tetrachloroethene	2.17
Tetrahydrofuran	24.9
Toluene	17
Trichloroethene	0.322
Trichlorofluoromethane	2.75



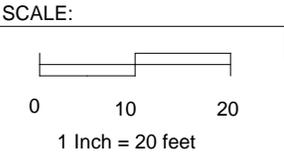
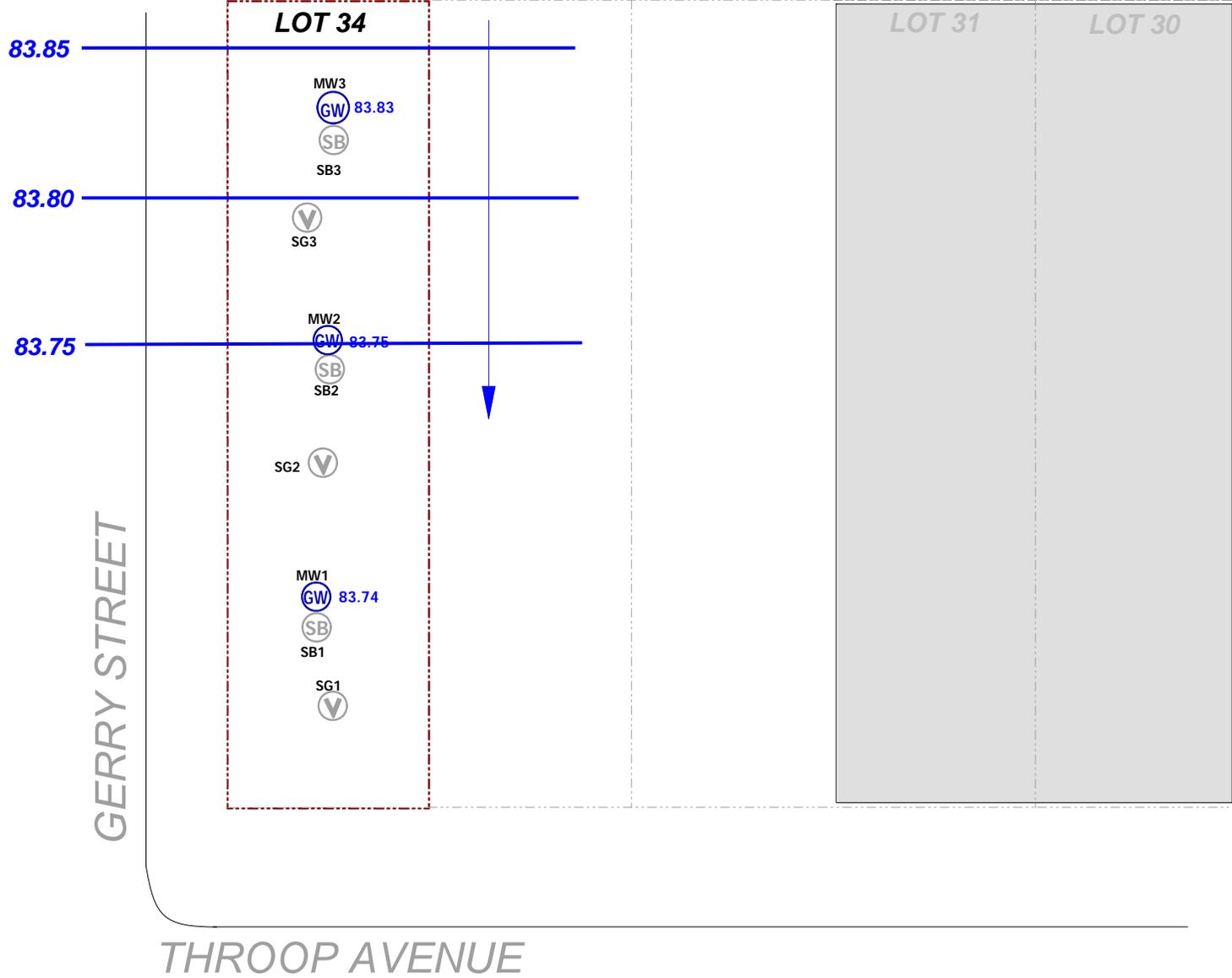
- KEY:
- Location of Soil Boring
  - Location of Soil Gas Implant
  - Location of Temporary MW
  - Property Boundary

Compound	µg/m³
Value Detected Above NYSDOH Air Guidance Va	

THROOP AVENUE

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**FIGURE 8** SOIL VAPOR DETECTIONS



- KEY:
- Location of Soil Boring
  - Location of Soil Gas Implant
  - Location of Temporary MW
  - Property Boundary

**ATTACHMENT A**  
**PHASE I REPORT**

# PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

May 2012

78 Throop Avenue  
Brooklyn, New York 11206

EBC Project No: TRG1202

Block 2266, Lots 32, 33 and 34



Prepared for:

The Rabsky Group, LLC  
39 Heyward Street  
Brooklyn, NY 11211

Submitted to:



New York City Office of Environmental Remediation  
E-Designation Program  
100 Gold Street, 2<sup>nd</sup> Floor  
New York, NY 10038



**ENVIRONMENTAL BUSINESS CONSULTANTS**

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***TABLES***

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Surrounding Property Usage	Site Historical Usage
Surrounding Area Historical Usage	Federal Databases Searched
New York State Databases Searched	

***FIGURES***

---

FIGURE 1	Site Location
FIGURE 2A	Lot Diagram
FIGURE 2B	Lot Diagram
FIGURE 3	Aerial Map
FIGURE 4A	Zoning Map
FIGURE 4B	Historic Zoning Map

***APPENDICES***

---

APPENDIX A	Site Photographs
APPENDIX B	Local Agency Information
APPENDIX C	Sanborn Maps
APPENDIX D	City Directory Search
APPENDIX E	EDR Radius Map Report

## EXECUTIVE SUMMARY

Environmental Business Consultants (EBC) prepared this Phase I Environmental Site Assessment (ESA) for the following property on behalf of The Rabsky Group: 78 Throop Avenue, Brooklyn, NY, 11206. The purpose of the Phase I ESA was to identify and evaluate the presence of recognized environmental conditions at the Site. Recognized environmental conditions are the presence or likely presence of any hazardous substance or petroleum product under conditions that indicate an existing release, a past release or material threat of a release of any hazardous substance or petroleum product into structures on the property or into the ground, groundwater or surface water of the property.

The work was conducted in accordance with the American Society for Testing and Materials (ASTM) Standard E 1527-05 (Standard Practices for Environmental Site Assessment: Phase I Environmental Site Assessment Process), 40 CFR Part 312 (Standards and Practices for All Appropriate Inquiry; Final Rule), and EBC's proposal for services.

The street addresses for the three lots comprising the Site are 78, 80 and 82 Throop Avenue, Brooklyn, New York 11206. The Site is identified as Block 2266, Lots 32, 33, and 34 on the Borough of Brooklyn Tax Map (Kings County). The three adjacent lots are located on the west side of Throop Avenue between Gerry Street and Wallabout Street. Each of the lots consists of approximately 25 feet of street frontage on Throop Avenue and has a depth of 100 feet. The total combined area for the Site lot is approximately 7,500 ft<sup>2</sup> (0.17 acres). The southern most lot (Lot 34) is a corner lot located on the northwest corner of the intersection of Throop Avenue and Gerry Street.

The Site consists of three adjacent vacant, undeveloped lots located on the northwest corner of the intersection of Throop Avenue and Gerry Street. Access to the properties is restricted by an 8 foot high chain link fence constructed along the Throop Avenue and Gerry Street property lines.

Historical information (DOB records, Sanborn Maps and City Directory listings) reviewed for the Site indicate that prior to 1887, the two northern most lots (Lots 32 and 33) were developed with several commercial structures for use as a livery and wagon house and the corner lot (Lot 34) was developed with an apartment building and a shed. The wagon house and livery operations ceased prior to 1904, and the two northern lots were redeveloped with a 5-story apartment building with first floor

commercial space (two stores) in the mid 1900's. The stores were utilized as a restaurant/luncheonette from the 1940's to the 1970's. A 4-story apartment building with a first floor store was constructed on the corner of Gerry Street and Throop Avenue on the southern lot and the store was utilized as a grocery store from the 1940's to the 1970's. In the early 1980's, all of the buildings on the Site were demolished. The Site has remained undeveloped since, but the property was used for lumber storage until approximately 2003. The Site appears to have been unused since 2003.

### **RECOGNIZED ENVIRONMENTAL CONDITIONS**

Based upon reconnaissance of the Site and surrounding properties, interviews and review of historical records and regulatory agency databases, *no recognized environmental conditions were noted for the Site.*

However, Lots 32, 33 and 34 are listed as having a Noise, Air and Hazmat little "E" restriction. It should be noted that nearly any development scenario for the Site is subject to the E-designation Environmental Review Program administered by the New York City Mayor's Office of Environmental Remediation (OER) due to the hazardous materials "E" designation. The Hazardous Materials Phase I and Phase II Testing Protocol (Hazmat-E) E-designation (E-238) was assigned to the as part of the Broadway Triangle Rezoning enacted in December of 2009 (CEQR No. 09HPD019K). OER will require a Phase II Subsurface Investigation. Typical OER Phase II investigation/sampling requirements for hazmat "E" sites are provided.

- A ground penetrating radar (GPR) survey to identify underground storage tanks, buried drums, or other subsurface waste disposal areas.
- Collection and laboratory analysis of surface soil samples (0-2 feet) for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), target analyte list (TAL) metals, PCBs and pesticides.
- Collection and laboratory analysis of subsurface soil samples (from 2 feet below the deepest basement level) for VOCs, SVOCs, TAL metals, PCBs and pesticides.
- Collection and laboratory analysis of groundwater samples for VOCs, SVOCs, TAL metals (filtered and unfiltered), PCBs and pesticides.
- Collection and laboratory analysis of soil gas samples for laboratory analysis of VOCs via EPA Method TO-15.

## 1.0 INTRODUCTION

### 1.1 Purpose

Environmental Business Consultants (EBC) prepared this Phase I Environmental Site Assessment (ESA) for the following three adjacent properties on behalf of The Rabsky Group: 78, 80 and 82 Throop Avenue, Brooklyn, NY, 11206 (**Figure 1**). The purpose of the Phase I ESA was to identify and evaluate the presence of recognized environmental conditions at the Site. Recognized environmental conditions are the presence or likely presence of any hazardous substance or petroleum product under conditions that indicate an existing release, a past release or material threat of a release of any hazardous substance or petroleum product into structures on the property or into the ground, groundwater or surface water of the property.

### 1.2 Scope of Services

The assessment consisted of a visual inspection of the site and surrounding areas, interviews, a review of historical information and maps, and a review of pertinent local, state, federal and facility records. Environmental Data Resources (EDR) of Southport, Connecticut, provided the following information: a computerized database search of environmental compliance records of sites within an ASTM standard radius of the property, a Sanborn fire insurance map search, and a historical telephone directory search.

EBC reviewed the environmental database report compiled by EDR as a part of the assessment. The purpose of the review was to identify reported listings for the Site or other properties in the site vicinity. Databases reviewed included federal and state lists of known or suspected contaminated sites, lists of known handlers or generators of hazardous waste, lists of known waste disposal facilities, and lists of aboveground and underground storage tanks (ASTs and USTs). EBC's review of the database has been incorporated into this report along with a copy of the EDR report.

The work was conducted in accordance with the American Society for Testing and Materials (ASTM) Standard E 1527-05 (Standard Practices for Environmental Site Assessment: Phase I Environmental Site Assessment Process), 40 CFR Part 312 (Standards and Practices for All Appropriate Inquiry; Final Rule), and EBC's proposal for services.

### 1.3 Significant Assumptions

EBC has made the following assumptions in the preparation of this report:

1. Groundwater – The depth to groundwater at the Site is approximately 8-10 feet below grade. Based on regional groundwater contour maps groundwater flow is expected to be west towards the East River.
2. Regulatory Records Information – EBC assumes that all information provided by EDR regarding the regulatory status of facilities within the ASTM Standard approximate minimum search distance is complete, accurate and current.
3. Other - EBC assumes that all information provided through interviews is complete and unbiased.

### 1.4 Limitations and Exceptions

The conclusions presented in this report are professional opinions based on the data described in this report. These opinions have been arrived at in accordance with currently accepted engineering and hydrogeologic standards and practices applicable to this location, and are subject to the following inherent limitations:

1. The data presented in this report are from visual inspections, examination of records in the public domain, and interviews with individuals having information about the site. The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration of the site, analysis of data, and re-evaluation of the findings, observations, and conclusions presented in this report.
2. The data reported and the findings, observations, and conclusions expressed are limited by the scope of work. The scope of work was defined by the request of the client.
3. No warranty or guarantee, whether expressed or implied, is made with respect to the data reported, findings, observations, or conclusions. These are based solely upon site conditions in existence at the time of the investigation, and other information obtained and reviewed by EBC.
4. EBC's Phase I ESA report presents professional opinions and findings of a scientific and technical nature. While attempts were made to relate the data and findings to applicable environmental laws and regulations, the report shall not be construed to offer legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, or

regulations, or policies of federal, state, or local government agencies. EBC does not assume liability for financial or other losses or subsequent damage caused by or related to any use of this document.

5. The conclusions presented in this report are professional opinions based on data described in this report. They are intended only for the purpose, site location, and project indicated. This report is not a definitive study of contamination at the site and should not be interpreted as such.
6. This report is based, in part, on information supplied to EBC by third-party sources. While efforts have been made to substantiate this third-party information, EBC cannot attest to the completeness or accuracy of information provided by others.

### **1.5 Special Terms and Conditions**

Authorization to perform this assessment was given by a proposal for services between The Rabsky Group and EBC.

### **1.6 User Reliance**

This report was prepared for the exclusive use of The Rabsky Group; no other party may use the report without the written authority of EBC.

## 2.0 PROPERTY DESCRIPTION AND PHYSICAL SETTING

### 2.1 Location and Legal Description

The street addresses for the three lots comprising the Site are 78, 80 and 82 Throop Avenue, Brooklyn, New York 11206. The Site is identified as Block 2266, Lots 32, 33, and 34 on the Borough of Brooklyn Tax Map (Kings County) as shown in **Figures 1, 2A, and 2B**. The three adjacent lots are located on the west side of Throop Avenue between Gerry Street and Wallabout Street. Each of the lots consists of approximately 25 feet of street frontage on Throop Avenue and has a depth of 100 feet. The total combined area for the Site lot is approximately 7,500 ft<sup>2</sup> (0.17 acres). The southern most lot (Lot 34) is a corner lot located on the northwest corner of the intersection of Throop Avenue and Gerry Street. An aerial photo of the Site and surrounding properties is provided as **Figure 3**.

A copy of the most recent deeds for each of the Lots 32 is attached in **Appendix B**. The deeds note the current owner of Lots 32 and 33 as Ramoee Inc. (as of August 19, 1997) and Lot 34 as Judit Weiss (as of June 6, 2007).

### 2.2 Site Characteristics

The Site consists of three adjacent undeveloped lots located on the northwest corner of the intersection of Throop Avenue and Gerry Street. At the time of the inspection, an 8 foot high chain link fence was constructed along the Throop Avenue and Gerry Street property lines. The undeveloped lots were uncapped, and consisted of an exposed soil cover. Photos taken during the Site inspection are attached in **Appendix A**.

#### 2.2.1 Utilities

At the time of the site inspection, the Site was not developed with a building. Therefore, no utilities could be identified.

### 2.3 Physical Setting

The elevation of the property is approximately 13 feet above the National Geodetic Vertical Datum (NGVD). The topography in the immediate area of the property generally slopes upward to the north, south and east.

### 2.3.1 Surface Water

The nearest body of water to the Site is the English Kills, which is located approximately 5,000 feet to the northeast.

### 2.3.2 Groundwater

The depth to groundwater beneath the site as inferred from available groundwater maps and topographic elevation is approximately 8-10 feet below grade. Based on regional groundwater contour maps groundwater flow is expected to be west toward the east river. No Public Supply Wells were identified within a one-mile radius of the Site.

### 2.3.3 Radon Risk Evaluation

Radon is a colorless, radioactive; inert gas formed by the decay of radium and may be present in soils and rocks containing granite, shale, phosphate and pitchblende. The USEPA's "Map of Radon Zones for New York State", September 1993 indicates that Kings County is not a radon risk area. The EDR report provides information from the New York State Department of Health radon survey which indicates that 100% of those sites tested in Kings County were below the United States Environmental Protection Agency (USEPA) radon action level of 4 Pico curies per liter (pCi/L) in the living area.

### 3.0 PROPERTY USAGE

#### 3.1 Current Property Usage

The Site consists of three adjacent vacant, undeveloped lots located on the northwest corner of the intersection of Throop Avenue and Gerry Street. Access to the properties is restricted by an 8 foot high chain link fence constructed along the Throop Avenue and Gerry Street property lines.

A review of New York City Department of Buildings (NYCDOB) records and the NYC Department of City Planning Zoning map indicates that the Site is zoned R7A with a C2-4 commercial overlay (**Figure 4A**). The 1961 NYC Department of City Planning Zoning Map indicates that the Site was formerly zoned M1-2 (**Figure 4B**).

#### 3.2 Current Usage of Adjoining/Surrounding Properties

A summary of the uses of the surrounding/adjacent properties is described below. Photos of the exterior of adjacent properties are attached in **Appendix A**.

#### Surrounding Property Usage

Direction	Property Description
<b>North</b> – Adjacent Property	<u>Block 2266, Lot 31</u> (76 Throop Avenue) – A 25’ by 100’ lot developed with a 1-story brick industrial/manufacturing building built around 1998. The current use of the building is unknown.
<b>South</b> – Adjacent property	<u>Block 2269, Lot 27</u> (84 Throop Avenue) – A 25’ by 70’ corner lot located on the southwest corner of the intersection of Throop Avenue and Gerry Street. The lot is currently undeveloped and vacant.  <u>Block 2269, Lot 25</u> (90 Gerry Street) – A 55’ by 100’ undeveloped and vacant lot.
<b>East</b> – Opposite side of Throop Avenue	<u>Block 2267, Lot 7501</u> (133 Gerry Street and 63-67 Throop Avenue) – A 220’ by 65’ lot developed with an 6-story apartment building built in 1999.
<b>West</b> – Adjacent property	<u>Block 2266, Lot 36</u> (99 Gerry Street) – A 25’ by 100’ lot undeveloped and vacant.

#### 3.3 Historical Usage of Site and Surrounding Properties

Historical sources researched to determine past usage of the Site and surrounding properties are as follows:

**Sanborn Fire Insurance Maps** - Sanborn fire insurance maps for the Site and surrounding area were reviewed for the years 1887, 1904, 1918, 1935, 1947, 1950, 1965, 1977, 1979, 1980, 1981, 1982,

1984, 1986, 1987, 1989, 1991, 1992, 1993, 1995, 1996, 2001, 2002, 2003, 2004, 2005, 2006 and 2007. The review is summarized in Section 3.3.1 and 3.3.2. Copies of Sanborn maps are included as **Appendix C**.

**City Directory Abstract** - A directory of historical telephone listings at the Site and surrounding properties were reviewed from approximately five year intervals for the years spanning 1922 through 2005. The review is summarized in Sections 3.3.2 below. A copy of the City Directory is included in **Appendix D**.

### *3.3.1 Sanborn Fire Insurance Maps - Site and Adjacent Properties*

The historical usage of the Site and adjacent properties, identified through Sanborn map review, is summarized below.

## ***1887***

### Site:

- Block 2266, Lot 32 (78 Throop Avenue) – Developed with several structures for use as a livery. A one-story building was used as a wagon house.
- Block 2266, Lot 33 (80 Throop Avenue) – Developed with several structures in conjunction with 78 Throop Avenue as a livery and wagon house.
- Block 2266, Lot 34 (82 Throop Avenue) – The Site was developed as two properties that fronted Gerry Street. The addresses were 101 and 109 Gerry Street. 101 Gerry Street was developed with a two story house and 109 Gerry Street was developed with a shed.

### Adjacent Properties:

#### *North*

- Block 2266, Lot 31 (76 Throop Ave) – Developed with a 3-story apartment building with first floor commercial space. The rear of the lot is developed with a 2-story house.

#### *West*

- Block 2266, Lot 36 (99 Gerry Street) – The lot is developed with a small house located in the rear of the lot.

*South*

- Block 2269, Lots 25 and 27 (90 to 100 Gerry Street) – Developed with several houses, with the exception of 100 Gerry Street, which was developed with a three apartment building with a first floor store.

*East*

- Block 2267, Lot 7501 (63-67 Throop Avenue) – The property consisted of four small lots, each developed with a three story apartment building. The first floor of one of the apartment buildings was utilized as a store and the first floor of a second apartment building was utilized as a bakery.

**1904**

Site:

- Block 2266, Lot 32 (78 Throop Avenue) – Developed with several structures for use as a livery. A one-story building was used as a wagon house.
- Block 2266, Lot 33 (80 Throop Avenue) – Developed with several structures in conjunction with 78 Throop Avenue as a livery.
- Block 2266, Lot 34 (82 Throop Avenue) – The Site was developed as two properties that fronted Gerry Street. The addresses were 101 and 109 Gerry Street. 101 Gerry Street was developed with a two story house and 109 Gerry Street was developed with a four story apartment building with first floor commercial space used as a store.

Adjacent Properties:

*North*

- Block 2266, Lot 31 (76 Throop Ave) – The second floor of the 3-story apartment building was utilized as a hall. The third floor continued to be used as an apartment and the first floor continued to be used as a store.

*South*

- Block 2269, Lots 25 (92Gerry Street) – The property was developed with a three story apartment building with first floor commercial space utilized by an undertaker.
- Block 2269, Lots 27 (100 Gerry Street) – The property was developed with a two-story building.

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## ***1918***

### Site:

- Block 2266, Lot 32 (78 Throop Avenue) – Developed with a 5-story apartment building with first floor commercial space utilized as a store for junk.
- Block 2266, Lot 33 (80 Throop Avenue) – Developed with a 5-story apartment building with first floor commercial space utilized as a store.
- Block 2266, Lot 34 (82 Throop Avenue) – The Site was developed as two properties that fronted Gerry Street. The addresses were 101 and 109 Gerry Street. 101 Gerry Street was developed with a two small two-story houses that had a store on the first floor and 109 Gerry Street was developed with a four story apartment building with first floor commercial space used as a store.

### Adjacent Properties:

#### *North*

- Block 2266, Lot 31 (76 Throop Ave) – Redeveloped into a 4-story building utilized as a hall and lodge.

#### *West*

- Block 2266, Lot 36 (99 Gerry Street) – Redeveloped with a 5-story apartment building with first floor commercial space utilized as a store.

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## ***1935***

### Site:

No significant changes were noted for the Site on the 1935 Sanborn map when compared to the 1918 Sanborn map.

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## ***1947***

### Site:

- Block 2266, Lot 34 (82 Throop Avenue) – The Site was developed as two properties that fronted Gerry Street. The addresses were 101 and 109 Gerry Street. 101 Gerry Street was developed with a small two-story house and 109 Gerry Street was developed with a four story apartment building with first floor commercial space used as a store.

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Adjacent Properties:

*North*

- Block 2266, Lot 31 (76 Throop Ave) – The property was developed with a 3-story church building.

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**1950**

No significant changes were noted for the Site or any adjacent properties on the 1950 Sanborn map when compared to the 1947 Sanborn map.

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**1965**

Adjacent Properties:

*North*

- Block 2266, Lot 31 (76 Throop Ave) – Developed with a 1-story building utilized for auto painting.

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**1977**

Site:

- Block 2266, Lot 34 (82 Throop Avenue) – The Site was developed as two properties that fronted Gerry Street. The addresses were 101 and 109 Gerry Street. 101 Gerry Street was undeveloped and 109 Gerry Street was developed with a four story apartment building with first floor commercial space used as a store.

Adjacent Properties:

*West*

- Block 2266, Lot 36 (99 Gerry Street) – Displayed undeveloped and vacant.

*South*

- Block 2266, Lot 34 (82 Throop Avenue) – The rear of the lot (101 Gerry Street) displayed undeveloped.

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**1979**

No significant changes were noted for the Site or any adjacent properties on the 1979 Sanborn map when compared to the 1977 Sanborn map.

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## ***1980***

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### Site:

- Block 2266, Lot 32 (78 Throop Avenue) – The property was undeveloped.
- Block 2266, Lot 32 (78 Throop Avenue) – The property was undeveloped.
- Block 2266, Lot 34 (82 Throop Avenue) – The 4-story apartment building was vacant.

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## ***1981***

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### Adjacent Properties:

#### *East*

- Block 2267, Lot 7501 (63-67 Throop Avenue) – 65 and 67 Throop Avenue displayed as one undeveloped and vacant lot. 63 Throop Avenue was developed with a 2-story building.

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## ***1982***

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### Site:

- Block 2266, Lot 34 (82 Throop Avenue) – The lot was divided into two properties that fronted Gerry Street. The addresses were 101 and 109 Gerry Street. Both properties were undeveloped as of 1982.

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## ***1984***

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No significant changes were noted for the Site or adjacent properties on the 1984 Sanborn map when compared to the 1982 Sanborn map.

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## ***1986***

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### Adjacent Property

#### *East*

- Block 2267, Lot 7501 (63-67 Throop Avenue) – 63 Throop Avenue was undeveloped.

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## ***1987, 1989***

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No significant changes were noted for the Site and adjacent properties on the 1987 and 1989 Sanborn maps when compared to the 1986 Sanborn map for the Site.

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## ***1991***

### ***Adjacent Property***

#### ***East***

- Block 2267, Lot 7501 (63-67 Throop Avenue) – Utilized as an auto repair facility.

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## ***1992***

### ***Site:***

- Block 2266, Lots 32, 33 and 34 (78 to 82 Throop Avenue) – All three lots comprising the Site were undeveloped but utilized as lumber storage.

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## ***1995, 1996***

No significant changes were noted for the Site and adjacent properties on the 1995 and 1996 Sanborn maps when compared to the 1992 Sanborn map for the Site.

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## ***2001***

### ***Adjacent Property***

#### ***East***

- Block 2267, Lot 7501 (63-67 Throop Avenue) – Developed with a 4-story apartment building with a basement.

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## ***2002***

No significant changes were noted for the Site and adjacent properties on the 2002 Sanborn map when compared to the 2001 Sanborn map for the Site.

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## ***2003***

### ***Site:***

- Block 2266, Lots 32, 33 and 34 (78 to 82 Throop Avenue) – The three lots comprising the site were no longer utilized for lumber storage.

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## ***2004-2007***

No significant changes were noted for the Site and adjacent properties on the 2004 through 2007 Sanborn maps when compared to the 2003 Sanborn map for the Site.

### 3.3.2 City Directory Listings - Site and Adjacent Properties

City Directory Listings available for the Site and adjacent properties was reviewed. The following information was obtained for the Site:

#### Site:

##### *78 Throop Avenue*

Residential Listings (1928,1934, 1940, 1949 1960, 1976)  
Throop Luncheonette (1949)  
Throop Restaurant (1960-1970)

##### *80 Throop Avenue*

Residential Listings (1930, 1934, 1945, 1949, 1960, 1970, 1973)

##### *82 Throop Avenue*

Residential Listings (1928, 1934, 1945, 1949-1960, 1965, 1970)  
Marreros Grocery Store (1970, 1973)  
Jay Bee Grocery (1949, 1960)

##### *101 Gerry Street*

Residential Listings (1934, 1960, 1965, 1970, 1973)

#### Adjacent Properties:

##### *North*

##### *76 Throop Avenue*

Williamsburg Educational Alliance (1928, 1934)  
Residential Listings (1940, 1945)  
Willies Auto Repair (1970)  
Throop Body and Fender Specialists (1976, 1980)

##### *East*

##### *63-67 Throop Avenue*

Residential Listings (1928, 1934)

##### *West*

##### *99 Gerry Street*

Residential Listings (1934, 1960, 1965)

#### **Summary**

Historical information (DOB records, Sanborn Maps and City Directory listings) reviewed for the Site identified the Site as being developed prior to 1887. The two northern most lots (Lots 32 and 33) were developed with several commercial structures for use as a livery and wagon house and the corner lot

(Lot 34) was developed with an apartment building and a shed. The wagon house and livery operations ceased prior to 1904, and the two northern lots were redeveloped with a 5-story apartment building with first floor commercial space (two stores) in the mid 1900's. The stores were utilized as a restaurant/luncheonette from the 1940's to the 1970's. A 4-story apartment building with a first floor store was constructed on the corner of Gerry Street and Throop Avenue on the southern lot and the store was utilized as a grocery store from the 1940's to the 1970's. In the early 1980's, all of the buildings on the Site were demolished. The Site has remained undeveloped since, but the property was used for lumber storage until approximately 2003. The Site appears to have been unused since 2003.

## **4.0 USER PROVIDED INFORMATION**

### **4.1 Title Records**

As of the date of this report the user has not requested that EBC perform a title search.

### **4.2 Environmental Liens**

An environmental lien is a charge, security or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup or other remediation of hazardous substances or petroleum products upon a property, including, but not limited to, liens imposed pursuant to CERCLA 42 USC § 9607 (1) & 9607(r) and similar state and local laws.

The user has not made EBC aware of any environmental liens against the Site and has not requested that EBC perform an environmental lien search for the Site.

### **4.3 Specialized Knowledge**

The user has not made EBC aware of any specialized knowledge regarding the chemicals or processes formerly in use at the Site or surrounding property.

### **4.4 Commonly Known or Reasonably Ascertainable Information**

The user has not made EBC aware of any commonly known or reasonably ascertainable information regarding the past uses of the Site, specific chemicals in use at the Site or any spills, chemical releases or environmental cleanups at the Site.

### **4.5 Valuation Reduction for Environmental Issues**

The user has not made EBC aware of any valuation reduction regarding the sale price of the property.

### **4.6 Owner, Property Manager and Occupant Information**

According to Office of City Register records, the current owner of Lots 32 and 33 are Ramoee Inc. (as of August 19, 1997) and Lot 34 is Judit Weiss (as of June 6, 2007).

### **4.7 Reason for Performing Phase I ESA**

The Phase I ESA was performed to identify recognized environmental conditions at the Site as part of the due diligence to support the redevelopment of the property by The Rabsky Group.



## 5.0 RECORDS REVIEW

### 5.1 Standard Environmental Record Sources

Environmental Data Resources (EDR) of Southport, Connecticut was retained to provide a computerized database search of the project area within an ASTM-standard radius of the Site. A list of the databases searched and the search radius is shown on the summary table below. EBC reviewed the database output to determine if the property appears on any of the regulatory agency lists. Detailed information concerning each database list is provided in the EDR report (**Appendix E**). A summary of standard environmental record sources researched is as follows:

#### 5.1.1 Federal Databases

The table below summarizes the Federal databases that were searched.

**Federal Databases Searched**

Agency	Listing Name or database Searched	Abbreviation	Search Distance
USEPA	National Priority List	NPL	1.0 mile
USEPA	National Priority List Deletions	Delisted NPL	1.0 mile
USEPA	Comprehensive Environmental Response Compensation and Liability Act Registry	CERCLIS	0.5 mile
USEPA	CERCLIS No Further Remedial Action Planned	CERCLIS-NFRAP	0.5 mile
USEPA	Resource Conservation and Recovery Act Corrective Action Activity	CORRACTS	1.0 mile
USEPA	Resource Conservation and Recovery Act Treatment/Storage/Disposal Facilities	RCRA TSD	0.5 mile
USEPA	Resource Conservation and Recovery Act Small/Large Quantity Hazardous Waste Generators	RCRA SQG/LQG	Site and Adjoining
USEPA	Federal Institutional/Engineering Control registries	US INST/ENG Controls	Site
USEPA	Emergency Response Notification System	ERNS	Site
USEPA	Superfund (CERCLA) Consent Decrees	CONSENT	1.0 mile
USEPA	Records of Decision	ROD	1.0 mile
USEPA	Mines Master Index	MINES	0.25 mile

**Federal NPL List** - The National Priority List (NPL) is the United States Environmental Protection Agency (EPA) database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the federal Superfund Program.

*Findings:* The Site is not listed as an NPL facility. No NPL sites were identified within a 1-mile radius of the Site.

**Federal Delisted NPL List** – NPL Delisted Sites are former NPL sites that have been remediated and removed from the EPA’s priority list. Sites are deleted where the EPA has determined that no further response is appropriate.

*Findings:* The Site is not identified as a Delisted NPL facility. There were no Delisted NPL sites identified within a 1-mile radius of the Site.

**Federal CERCLIS List** - The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) list is a compilation of sites that the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances.

*Findings:* The Site is not listed as a CERCLIS facility. There are no CERCLIS sites identified within a ½ mile radius of the Site.

**Federal CERCLIS-NFRAP List** – No Further Remedial Action Planned (NFRAP) sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA’s knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL).

*Findings:* The Site is not listed as a CERCLIS-NFRAP facility. Two CERCLIS-NFRAP sites were identified within a ½ mile radius of the Site.

Borden Chemical Adhesives and Chem is listed as a CERCLIS-NFRAP site. The facility is located at 56 Nostrand Avenue, Brooklyn, NY 11205 (approximately 2,269 feet southwest of the Site). The facility is also listed within the RCRA-NonGen, and FINDS databases as wells as HSWDS (under Borden Chemical). However, due to the distance and location of

the facility from the Site, it is not considered a significant environmental concern for this assessment.

Slattery J B & Bros Inc. is listed as a CERCLIS-NFRAP site. The facility is located at 171-187 Wallabout Street, Brooklyn, NY 11206 (approximately 1,872 feet west-southwest of the Site). The facility is also listed within the RCRA-NonGen, FINDS and MANIFEST databases. However, due to the distance and location of the facility from the Site, it is not considered a significant environmental concern for this assessment.

**Federal RCRA CORRACTS List** - The RCRA Corrective Actions (CORRACTS) database is the EPA's list of hazardous waste treatment, storage or disposal facilities subject to corrective action under RCRA.

*Findings:* The Site is not listed as a RCRA CORRACTS facility. Two RCRA CORRACTS sites were identified within a 1 mile radius of the Site.

Pfizer Inc. is listed as a RCRA CORRACTS site. The facility is located at 11 Bartlett Street, Brooklyn, NY 11206 (approximately 683 feet south southwest of the Site). The facility is also listed within the RCRA-LQG, FINDS, RAATS and Manifest databases. Due to the location of the facility (cross gradient), the facility is not considered a significant environmental concern for this assessment.

Techtronics Ecological Corp. is listed as a RCRA CORRACTS site. The facility is located at 8 Walworth Street, Brooklyn, NY 11205 (approximately 2,487 feet west-southwest of the Site). The facility is also listed within the RCRA-Nongen, FINDS, and Manifest databases. Due to the distance of the facility from the Site, it is not considered a significant environmental concern for this assessment.

**Federal RCRA Treatment, Storage and Disposal** - The EPA Resource Conservation and Recovery Act (RCRA) program identifies reporting facilities that treat, store or dispose of hazardous waste.

*Findings:* The Site is not listed as a RCRA TSD facility and no TSD facilities were identified within a ½ mile radius of the Site.

**Federal RCRA Generators** - The RCRA Generators database is a compilation of reporting facilities that generate hazardous waste. A Small Quantity Generator (SQG) is a site which generates more than 100 and less than 1000 kg of hazardous waste during any one calendar month and accumulates less than 6000 kg of hazardous waste at any time; or a site which generates less than 100 kg of hazardous waste during any one calendar month and accumulates less than 1000 kg of hazardous waste at any time. Large Quantity Generators (LQG) generate more than 1000 kg of hazardous waste per month. Although a property may be identified as a generator of hazardous waste, it does not mean that this material has been released to the environment. RCRA Generators which have released hazardous materials are identified in the appropriate state or federal listing.

*Findings:* The Site is not listed as a RCRA-SQG, RCRA-CESQG, RCRA-LQG or RCRA-NonGen facility. Four RCRA-LQG facilities, three RCRA-SQG facilities and seven RCRA-CESQG facilities were identified within a 1/4 mile radius of the Site.

Con Edison – Manhole Nos. 15641 and 14001 are listed as a RCRA-LQG site. Con Edison listings such as this one are typically associated with small cleanups within manholes due to small equipment leaks. Therefore, the listing is not considered a significant environmental concern for this assessment.

Pfizer Inc. is listed as a RCRA-LQG site. The facility is located at 11 Bartlett Street, Brooklyn, NY 11206 (approximately 683 feet south-southwest of the Site). The facility is also listed within the RCRA CORRACTS, RCRA-LQG, RAATS and Manifest databases. Based on the distance of the facility from the Site, it is not considered a significant environmental concern for this assessment.

Pfizer Inc. – Brooklyn Plant is listed as a RCRA-LQG site. The facility is located at 1630 Flushing Avenue, Brooklyn, NY 11206 (approximately 829 feet south-southwest of the Site). The facility is also listed within the FINDS and Manifest databases. Based on the distance and location of the facility in relation to the Site, it is not considered a significant environmental concern for this assessment.

The NYCT – Broadway – Lorimer Station is listed as a RCRA-SQG. The facility is located at 143 Lorimer Street, Brooklyn, NY 11206 (approximately 780 feet west-northwest of the Site). The facility is also listed within the Manifest database. Due to the absence of inclusion within a database which would indicate a spill or release had occurred at the facility, it is not considered a significant environmental concern for this assessment.

Bais Ruchel High School Inc is listed as a RCRA-SQG. The facility is located at 177 Harrison Ave, Brooklyn, NY (approximately 502 feet southwest of the Site). The facility is also listed within the MANIFEST database. Due to the absence of inclusion within a database which would indicate a spill or release had occurred at the facility, it is not considered a significant environmental concern for this assessment.

Arlington Press is listed as a RCRA-SQG. The facility is located at 191 Harrison Avenue, Brooklyn, NY 11206 (approximately 523 feet south-southwest of the Site). The facility is also listed within the FINDS and MANIFEST databases. Due to the absence of inclusion within a database which would indicate a spill or release had occurred at the facility, it is not considered a significant environmental concern for this assessment.

Con Edison – The Con Edison facility is listed as a RCRA-CESQG. The facility is located at Whipple Street and Flushing Avenue, Brooklyn, NY 11206 (approximately 699 feet south-southeast of the Site). Con Edison listings such as this one are typically associated with small cleanups within manholes due to small equipment leaks. Therefore, the listing is not considered a significant environmental concern for this assessment.

Pfizer Inc. – Sites B & D are listed as a RCRA-CESQG site. The facility is located at 73 Gerry Street, Brooklyn, NY 11206 (approximately 299 feet south-southwest of the Site). The facility is also listed within the FINDS, MANIFEST, and VCP databases. The facility was also identified as a RCRA-SQG in 1995. Drums of hazardous waste were shipped from the property in 2002, 2004 and 2005. The address 73-87 Gerry Street is also listed as a NYS Spill site under spill number 9516449. The spill number was assigned to the property in March of 2006. DEC notes provided by EDR provide limited information except for “construction work at site uncovered contaminated soil appears gasoline was

spilled at site at some time in past.” The spill number was closed by the NYSDEC. A second spill (9704207) was reported to the DEC in July of 1997 for the same address. The person that reported the spill noted that an environmental study was done on the property and soil was found to be contaminated. A third spill number (9203348) was listed under Pfizer Inc./Gerry Street. DEC notes provided by EDR indicate the following: “contaminated soil stockpiled in dumpsters after tank pull. Sampling, testing and will dispose.” No additional notes were provided, but the spill number was closed by the DEC in 1992, three days after the spill was reported. The site is still being monitored. Due to the closure of the spill files and the ongoing remediation of the site, this site is not considered a significant environmental concern for this investigation.

CAS Developers is listed as a RCRA-CESQG. The facility is located at 70 Union Avenue, Brooklyn, NY 11206 (approximately 908 feet west of the Site). The facility is not listed in any other databases. Due to the distance and location of the facility and absence of inclusion within a database which would indicate a spill or release had occurred at the facility, it is not considered a significant environmental concern for this assessment.

NYC Board of Education P.S. 257 is listed as a RCRA-CESQG. The facility is located at 60 Cook Street, Brooklyn, NY 11206 (approximately 1,215 feet east of the Site). The facility is also listed within the FINDS and MANIFEST database. Due to the absence of inclusion within a database which would indicate a spill or release had occurred at the facility, it is not considered a significant environmental concern for this assessment.

Mars Cleaners is listed as a RCRA-CESQG. The facility is located at 80 Manhattan Avenue, Brooklyn, NY 11206 (approximately 1123 feet north-northeast of the Site). The facility is also listed within the FINDS and MANIFEST database. Due to the absence of inclusion within a database which would indicate a spill or release had occurred at the facility, it is not considered a significant environmental concern for this assessment.

MTA – NYCT – Flushing Ave Station G Line is listed as a RCRA-CESQG. The facility is located at Flushing and Union Avenue, Brooklyn, NY 11206 (approximately 1,218 feet southwest of the Site). The facility is also listed within the FINDS and MANIFEST

databases. Due to the absence of inclusion within a database which would indicate a spill or release had occurred at the facility, it is not considered a significant environmental concern for this assessment.

**Federal Institutional/Engineering Controls** – Federal Institutional/Engineering Controls databases list sites with institutional/engineering controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

*Findings:* No Federal Institutional/Engineering Controls were listed for the Site and no sites were identified within a ½ mile radius of the Site.

**Federal Emergency Response Notification System** - The Emergency Response Notification System (ERNS) is national database used collect information on reported releases of oil or hazardous substances.

*Findings:* The Site was not listed within the ERNS databases.

**Federal Superfund Consent Decrees** - The Superfund Consent Decrees (CONSENT) list identifies major legal settlements that establish responsibility and standards for cleanup at NPL sites.

*Findings:* Neither the Site nor any property within one mile of the Site is identified in the CONSENT databases.

**Federal Records of Decision** - Record of Decision (ROD) documents mandate a permanent remedy at an NPL site containing technical and health information to aid in the cleanup.

*Findings:* Neither the Site nor any property within one mile of the Site is identified as a ROD site.

**Federal Master Mines Index** - The Master Mines Index (MINES) file contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

*Findings:* Neither the Site nor any property within ¼ mile of the Site is listed in the MINES database.

### 5.1.2 New York State Databases

The table below summarizes the State databases that were searched.

#### New York State Databases Searched

Agency	Listing Name or database Searched	Abbreviation	Search Distance
NYSDEC	Inactive Hazardous Waste Disposal Sites in New York State	SHWS	1.0 mile
NYSDEC	Hazardous Substance Waste Disposal Site Study	HSWDS	0.5 mile
NYSDEC	Solid Waste Facility Register	SWF	0.5 mile
NYSDEC	Registered Recycling Facilities	SWRCY	0.5 mile
NYSDEC	Registered Waste Tire Storage Facilities	SWTIRE	0.5 mile
NYSDEC	Leaking Underground Storage Tank Sites	LTANKS	0.5 mile
NYSDEC	Petroleum Bulk Storage (PBS)	UST/AST	Site and Adjoining
NYSDEC	Chemical Bulk Storage (CBS)	CBS AST/UST	Site and Adjoining
NYSDEC	Institutional/Engineering Control registries	INST/ENG Controls	Site
NYSDEC	Voluntary Cleanup Agreements	VCP	0.5 mile
NYSDEC	Brownfield sites	Brownfields	0.5 mile
NYSDEC	Major Oil Storage Facilities	MOSF	0.5 mile
NYSDEC	New York State Spills	NYSPILLS	0.125 mile
NYSDEC	Dry Cleaner Site	Drycleaners	0.25 mile

**NYS Inactive Hazardous Waste Disposal Sites** - The New York State Department of Environmental Conservation (NYSDEC) maintains a state priority list of Inactive Hazardous Waste Disposal Sites (SHWS) considered to be actually or potentially contaminated and presenting a possible threat to human health and the environment. Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance/waste sites.

*Findings:* The Site is not listed as a SHWS site. One SHWS site was identified within a 1 mile radius of the Site.

The former BQE/Ansbacher Color and Dye Factory located on Meeker Avenue is approximately 4,758 feet north-northwest of the Site. A determination was made by the DEC that the site does not pose a significant threat to the public health or environment. Therefore, the former color and dye factory is not considered a significant environmental concern for this assessment.

**NYS Hazardous Substance Waste Disposal Site Study** - The Hazardous Substance Waste Disposal Site Study (HSWDS) list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the HSWDS registry and non-registry sites that EPA Preliminary Assessment reports or Site Investigation reports were prepared.

*Findings:* The Site is not listed as a HSWD site. One HSWDS site was identified within a ½ mile radius of the Site.

Borden Chemical Adhesives and Chem is listed as a HSWD site. The facility is located at 56 Nostrand Avenue, Brooklyn, NY 11205 (approximately 2,269 feet southwest of the Site). Borden Chemical Adhesives and Chem is discussed in the CERCLIS-NFRAP section above.

**NYS Landfill** - The NYSDEC Solid Waste Facility Register records contain an inventory of solid waste disposal facilities or landfills in New York State.

*Findings:* The Site is not listed as a landfill. However, two SWF/LF facilities were identified within a ½ mile radius of the Site.

Cooper Tank & Welding Co. is located at 222-26 Siegel Avenue, which is approximately 1,849 feet east-northeast of the Site. The facility is an inactive, regulated transfer station. The facility is not listed in any other database which would indicate a spill/release or remedial action has occurred at the property and is therefore not considered a significant concern for this assessment.

Bedford Auto Sales is located at 984 Myrtle Avenue, which is approximately 2,524 south-southeast of the Site. The facility is not listed in any other database which would indicate a

spill/release or remedial action has occurred at the site and is therefore not considered a significant concern for this assessment.

**NYS Registered Recycling Facilities** - The Registered Recycling Facilities List (SWRCY) is a NYSDEC list of recycling facilities.

*Findings:* The Site is not listed as a SWRCY site. No SWRCY sites were identified within a ½ mile radius of the Site.

**NYS Registered Waste Tire Storage Facilities** - The Registered Recycling Facilities List (SWTIRE) is a NYSDEC list of Registered Waste Tire Storage & Facility List.

*Findings:* The Site is not listed as a SWTIRE site. There were no SWTIRE sites identified within a ½ mile radius of the Site.

**NYS Leaking Underground Storage Tank Sites** - The Leaking Underground Storage Tank Sites (LTANKS) database contains a NYSDEC inventory of reported leaking storage tank incidents. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

*Findings:* The Site is not identified as a LTANKS site. However, 30 LTANK and 39 Historical LTANK sites were identified within ½ mile of the Site. All of the LTANK spill numbers have been closed by the NYSDEC. Due to the closure of all spills by the NYSDEC, none are considered to be a significant concern for this assessment.

**NYS Petroleum Bulk Storage** - The NYSDEC Petroleum Bulk Storage - Underground Tanks (UST) database lists facilities with a petroleum storage capacity of more than 1,100 gallons and less than 400,000 gallons. The NYSDEC Petroleum Bulk Storage - Aboveground Tanks (AST) database lists facilities with registered above ground storage tanks.

*Findings:* The Site is not listed as a UST or AST site. However, 23 UST sites, 14 Hist UST sites, and 11 AST sites are registered within a ¼ mile radius of the Site. Properties with registered ASTs or USTs do not necessarily pose a hazard unless the tanks are leaking or a spill

occurs. Most tanks in the area hold home heating oil for on-site boilers and furnaces. Sites with leaking tanks or spills are addressed in the appropriate section.

**NYS Chemical Bulk Storage** - The Chemical Bulk Storage (CBS) database is a NYSDEC list of facilities that store regulated hazardous substances in aboveground tanks (AST) with capacities of 185 gallons or greater or underground tanks (UST) of any size.

*Findings:* The Site is not identified as a CBS facility. One CBS AST facility was identified within a ¼ mile radius of the subject search. Sites with leaking tanks or spills are addressed in the appropriate section.

**NYS Institutional/Engineering Controls** – NYSDEC list of Environmental Remediation sites with Institutional or Engineering Controls in place.

*Findings:* Neither the Site nor any site within a ½ mile of the Site was identified in the NYSDEC Institutional/Engineering Controls databases.

**NYS Voluntary Cleanup Agreements** - The NYSDEC Voluntary Cleanup Program (VCP) database identifies hazardous waste sites undergoing private sector cleanup as part of redevelopment.

*Findings:* The Site was not identified as a VCP site. Three VCP sites were identified within a ½ mile radius of the Site.

The former Pfizer Inc. facilities (Sites B & D) are located at 59-71 Gerry Street and 73-87 Gerry Street, which are approximately 299 feet south-southwest of the Site. Although remedial activities have been performed at the property, both petroleum related and chlorinated volatile organic compounds have been detected at elevated concentrations in soil, groundwater and soil gas at the site. Soil remediation at the site has been completed and an air sparging system operated at the property to remediate groundwater. Quarterly monitoring is still undergoing. Due to the closure of the spill numbers and the progress of the remediation, this site is not considered a significant environmental concern for this investigation.

Texaco Station is located at 630 Flushing Ave, Williamsburg, NY, which is approximately 829 south-southwest of the Site. The facility is also included within the LTANKS, HIST LTANKS, HIST UST, AST, HIST AST, MANIFEST, NY Spills, NY Hist Spills and CBS databases. All spills associated with the Texaco Station have been closed by the NYSDEC, therefore this site is not considered a significant environmental concern for this investigation.

Pfizer Inc. – (Organics/Suciac Block) is located at 630 Flushing Avenue, which is approximately 922 feet south-southwest of the Site. Hazardous soil was excavated from the site and a deed restriction was filed with Kings County Registrars Office. However, no description of offsite contamination was provided. Therefore, the facility is not considered a significant concern for this assessment.

**NYS Brownfields** - A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

*Findings:* The Site was not identified as a Brownfield site. No Brownfield sites were located within ½ mile of the Site.

**NYS Major Oil Storage Facilities** - The NYSDEC Major Oil Storage Facilities (MOSF) database lists facilities or vessels with a petroleum storage capacity of more than 400,000 gallons.

*Findings:* The Site was not identified as an MOSF. No MOSF UST site or MOSF AST sites were identified within ½ mile of the Site.

**NYS Spills** - The New York State Spills Information Database (NY SPILLS) contains data collected on chemical and petroleum spill incidents reported to NYSDEC since April 1, 1986.

*Findings:* The Site was not listed within the NY SPILLS database. However 15 spill sites and 9 historical spill sites identified within ¼ mile of the Site. Based on the decision of the NYSDEC to close these spill sites, they are not considered to be a significant concern for

this assessment. However, two spills have not been closed and are within a close proximity of the Site, they are discussed below.

NYSDEC Spill No. 9507227 – The former CITGO gas station at 594 Broadway Avenue (approximately 464 feet to the north) is listed as a NY Spill site and Hist LTANK site. As of July 2008 a subsurface investigation work plan has been approved, but the summary report has not been submitted. The final report due date was set at July 22<sup>nd</sup>, 2008 and has yet to be submitted. Attempts to contact the former owner of the site by the NYSDEC have been unsuccessful. However, due to the location of the gas station (down gradient of Site), this spill site is not considered a significant environmental concern for this investigation.

NYSDEC Spill No. 0800660 – A former junkyard located at 650 Broadway Avenue Brooklyn, NY (approximately 473 feet east) is listed as a NY Spills site. During a site visit multiple areas of contaminated soil were found. Some puddles of oil were discovered as well as oil leaking into on site drains (drains were not connected to NYC sewers). Two 275-gallon waste oil ASTs with no PBS records were found on site. One of the ASTs was discovered with speedy dry around the tank and the site inspector was told that some oil was overfilled and spilled onto the concrete surface around the tank. EBC performed a subsurface investigation of the site and found no groundwater contamination. Therefore, the facility is not considered a significant concern for this assessment.

**Drycleaner Sites** - The NYSDEC maintains a listing of all registered drycleaners. Drycleaner sites do not necessarily pose a hazard unless a spill occurs. Sites at which spills have been identified are addressed in the appropriate section.

*Findings:* The Site is not identified as drycleaner. Two drycleaners were identified within ¼ mile of the site.

Mars Cleaners was identified as a PERC drycleaner at 80 Manhattan Avenue, which is approximately 1,123 feet north-northeast of the Site. The facility is not listed within a database which indicates a spill/release had occurred, and is therefore not considered a significant environmental concern for this assessment.

Harrison/Yorktown/Ace Rapid Drycleaners was identified as a PERC drycleaner at 209 Harrison Avenue, which is approximately 613 feet south-southwest of the Site. The facility is not listed within a database which would indicate a spill/release had occurred, and is therefore not considered a significant environmental concern for this assessment.

**MANIFEST:** Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

*Findings:* The Site is not listed as a MANIFEST site. However, 37 manifest sites were identified within a ¼ mile radius of the Site. Since none of the manifest sites are either adjacent to the Site and/or do not appear in other EDR databases which would indicate a release has occurred, they are not considered to be a significant concern for this assessment. Facilities that may appear in an EDR Database which would indicate a release has occurred are discussed under the appropriate headings.

**NYS Manufactured Gas Plants -** Manufactured gas plants (MGP) were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar, sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

*Findings:* The Site is not identified as an MGP site. However, 5 MGP sites were identified at a distance greater than ½ mile (but less than 1 mile) of the Site. Due to the distance and/or location of the each of the MGP sites, none are considered a significant concern for this assessment.

## 5.2 Additional Environmental Record Sources

### 5.2.1 Local Agency Review

A Freedom of Information Act (FOIA) request was sent to the New York City Department of Health (NYCDOH) for information regarding hazardous operations including the registration of fuel storage

tanks, past spills, or violations. As of the date of this report, a response had not been received for the FOIA request. Regulatory agencies usually take six to eight weeks to process FOIA requests. Any pertinent information received will be reviewed and forwarded upon receipt. Copies of FOIA requests and regulatory agency responses are included in **Appendix B**.

In addition, a tank request form was submitted to the City of New York Fire Department to obtain certified reports outlining information regarding any listed tank information held in FDNY District Office Folders and computer files. As of the date of this report, a response had not been received. Any pertinent information received will be reviewed and forwarded upon receipt. A copy of the tank request form forwarded to the City of New York Fire Department is included in **Appendix B**.

The NYC OASIS Interactive Maps (<http://www.oasisnyc.net/map.aspx>) were reviewed to obtain a New York City Department of Buildings Property Profile Overview for the Site. Information available on the interactive website include historic Certificate of Occupancies, boiler records and DEP Boiler Information, records of complaints and both DOB and ECB violations, site restriction status (such as little “E”, TA, UB, or SRO restrictions), additional DCP addresses, as well as job filings and permits. Information from the website has been attached in **Appendix B**. No information was available on the NYC OASIS Interactive Maps.

Lots 32, 33 and 34 are listed as having a Noise, Air and Hazmat little “E” restriction. Each lot has been assigned an E-designation (E-238) for Air Quality-#2 Fuel Oil or Natural Gas for heating, ventilation and air conditioning systems (Air-E), Hazardous Materials Phase I and Phase II Testing Protocol (Hazmat-E) and Window Wall Attenuation and Alternate Ventilation (Noise-E) as part of the Broadway Triangle Rezoning enacted in December of 2009 (CEQR No. 09HPD019K). Additional information regarding “E” sites can be found on the New York City Office of Environmental Remediation website:

[http://www.nyc.gov/html/oer/html/e\\_designation/e\\_designation.shtml](http://www.nyc.gov/html/oer/html/e_designation/e_designation.shtml).

The Department of Finance Building Classification is V1-Vacant Land.

### 5.2.2 Internet Search Results

The street address of the Site was entered into www.Google.com to obtain site occupant information. The result of the search was a news article published September 20<sup>th</sup>, 1905 in the NY Times stating a financial dispute between a husband and wife residing at 80 Throop Avenue. This information revealed the Site was residential in 1905.

<http://query.nytimes.com/mem/archive-free/pdf?res=F20614F73C5912738DDDA90A94D1405B858CF1D3>

### 5.2.3 Historic Zoning Map

A review of the NYC Department of City Planning Zoning Map for 1961 indicates that the Site was formerly zoned M1-2 (**Figure 4B**).

## 6.0 SITE RECONNAISSANCE

### 6.1 Methodology and Limiting Conditions

Mr. Kevin Waters of EBC performed the Site inspection on Thursday, May 10, 2012, beginning at approximately 8:00 am. The reconnaissance included a visual inspection of the Site, the sidewalk immediately in front of the Site, and the exterior of adjacent properties. Photos taken during the inspection are attached (**Appendix A**).

### 6.2 Observations

At the time of the inspection, the Site consisted of three adjacent undeveloped lots located on the northwest corner of the intersection of Throop Avenue and Gerry Street. An 8 foot high chain link fence was constructed along the Throop Avenue and Gerry Street property lines. The undeveloped lots were uncapped, and consisted of an exposed soil cover. A small amount of trash was noted on the Site.

### 6.3 Aboveground Storage Tanks (AST)

No evidence of an aboveground storage tank was identified during the Site inspection.

### 6.4 Underground Storage Tanks (UST)

No evidence of an underground storage tank was noted during the Site inspection.

### 6.5 Hazardous and Non-Hazardous Chemical Storage and Disposal

No evidence of hazardous/non-hazardous chemical storage was observed during the Site inspection.

### 6.6 Polychlorinated Biphenyls (PCBs)

No evidence of PCBs or PCB containing equipment was observed during the Site inspection.

### 6.7 Asbestos

The lot was undeveloped at the time of the inspection.

### 6.8 Lead-Based Paint (LBP)

The lot was undeveloped at the time of the inspection.

### 6.9 Mold

The lot was undeveloped at the time of the inspection.

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## 7.0 INTERVIEWS

### 7.1 Owner

No representatives of the current property owner were available for an interview at the time this report was prepared. An addendum will be prepared and forwarded to and The Rabsky Group, if an interview is conducted at a later date.

### 7.2 Occupants

The Site was a vacant lot, therefore an no Site occupants were available for an interview.

### 7.3 Local Government Officials

A Freedom of Information Act (FOIA) request was sent to the New York City Department of Health (NYCDOH) for information regarding hazardous operations including the registration of fuel storage tanks, past spills, or violations. As of the date of this report, a response had not been received for the FOIA request. Regulatory agencies usually take six to eight weeks to process FOIA requests. Any pertinent information received will be reviewed and forwarded upon receipt. Copies of FOIA requests and regulatory agency responses are included in **Appendix B**.

## 8.0 FINDINGS AND OPINIONS

Based upon reconnaissance of the subject and surrounding properties, interviews and review of historical records and regulatory agency databases, **no recognized environmental conditions have been identified** in connection with the Site.

### 8.1 Additional Environmental Issues

*Lots 32, 33 and 34 are listed as having a Noise, Air and Hazmat little “E” restriction.* The Site has been assigned E-designation (E-238) for Air Quality-Natural Gas Heat & Hot Water as well as Exhaust Stack Location Limitations (Air-E), Hazardous Materials Phase I and Phase II Testing Protocol (Hazmat-E) and Window Wall Attenuation and Alternate Ventilation (Noise-E) as part of the Broadway Triangle Rezoning enacted in December of 2009 (CEQR No. 09HPD019K). An E-designation does not interfere with the present use of the site; however E-designations do prevent the release of building permits subject to a detailed environmental review and release by the NYC Office of Environmental Remediation. Such release may require a full subsurface investigation, remedial and health and safety planning, implementation of a remedial program and documentation that the remedial program was completed during redevelopment of the property.

Additional information regarding “E” sites can be found on the NYC Office of Environmental Remediation website:

[http://www.nyc.gov/html/oer/html/e\\_designation/e\\_designation.shtml](http://www.nyc.gov/html/oer/html/e_designation/e_designation.shtml).

## 9.0 CONCLUSIONS AND RECOMMENDATIONS

EBC performed a Phase I Environmental Site Assessment in conformance with the scope and limitations as described under ASTM Practice E1527-05 for the property identified as Block 2266, Lots 32, 33 and 34 in Brooklyn, New York. Any exceptions to, or deletions from, this practice are described in **Section 1.4** of this report. *This assessment has revealed no recognized environmental conditions in connection with the Site:*

It should be noted that nearly any development scenario for the site is subject to the E-designation Environmental Review Program administered by the New York City Mayor's Office of Environmental Remediation (MOER) due to the hazardous materials "E" designation assigned to Lots 32, 33, and 34. Typical MOER Phase II investigation/sampling requirements for hazmat "E" sites are provided.

- A ground penetrating radar (GPR) survey to identify underground storage tanks, buried drums, or other subsurface waste disposal areas.
- Collection and laboratory analysis of surface soil samples (0-2 feet) for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), target analyte list (TAL) metals, PCBs and pesticides.
- Collection and laboratory analysis of subsurface soil samples (from 2 feet below the deepest basement level) for VOCs, SVOCs, TAL metals, PCBs and pesticides.
- Collection and laboratory analysis of groundwater samples for VOCs, SVOCs, TAL metals (filtered and unfiltered), PCBs and pesticides.
- Collection and laboratory analysis of soil gas samples for laboratory analysis of VOCs via EPA Method TO-15.

## 10.0 DEVIATIONS

This Phase I ESA was conducted in accordance with the scope and limitations of the American Society for Testing and Materials (ASTM) Standard E 1527-05 (Standard Practices for Environmental Site Assessment: Phase I Environmental Site Assessment Process) and 40 CFR Part 312 (Standards and Practices for All Appropriate Inquiry; Final Rule). Excluding additional services outlined in Section 11.0, there were no deviations or deletions from this practice.

## 11.0 ADDITIONAL SERVICES

EBC has included, in addition to those items outlined by ASTM E 1527-05, a general evaluation of radon impact potential based on USEPA maps.

## 12.0 REFERENCES

Standard practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Standard E 1527-05

All Appropriate Inquiry, Final Rule, 40 CFR Part 312

### 13.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the Site. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

*Prepared By:*



Dominick Mosca  
Environmental Scientist

*Reviewed By:*



Kevin R. Brussee  
Project Manager

# QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL



**ENVIRONMENTAL BUSINESS CONSULTANTS**

**Kevin R. Brussee, Project Manager**

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**Professional Experience**

EBC: January 2008

Prior: 6 years

**Education**

MS, Environmental Studies, University of Massachusetts, Lowell

BS, Environmental Science, Plattsburgh State University, NY

**Areas of Expertise**

- Site Investigations
- Gasoline/Fuel Oil Tank Removals
- NYSDEC Spill Closure
- NYC "E" Designations

**Professional Certification**

- OSHA 40-hr HAZMAT

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**PROFILE**

Mr. Brussee has 8 years experience as an environmental consultant/contractor and has worked on and managed a wide range of environmental projects. Mr. Brussee has conducted Phase I, II and III Environmental Site Assessments for commercial, industrial, and residential properties in New York, Maryland and Delaware.

Mr. Brussee's field experience includes tank removal and installations, spill management and closure, soil and groundwater sampling, and both the oversight and operation of soil boring and well installation equipment. In addition, Mr. Brussee has performed project research, data reduction and evaluation, and has prepared reports for both regulatory and client use.

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**PREVIOUS EXPERIENCE**

**Eastern Environmental Solutions, Inc., Manorville, NY**

Project Manager, 2006-2008

**EA Engineering, Science & Technology**

Hydrogeologist, 2005-2006

**P.W. Grosser Consulting, Bohemia, NY**

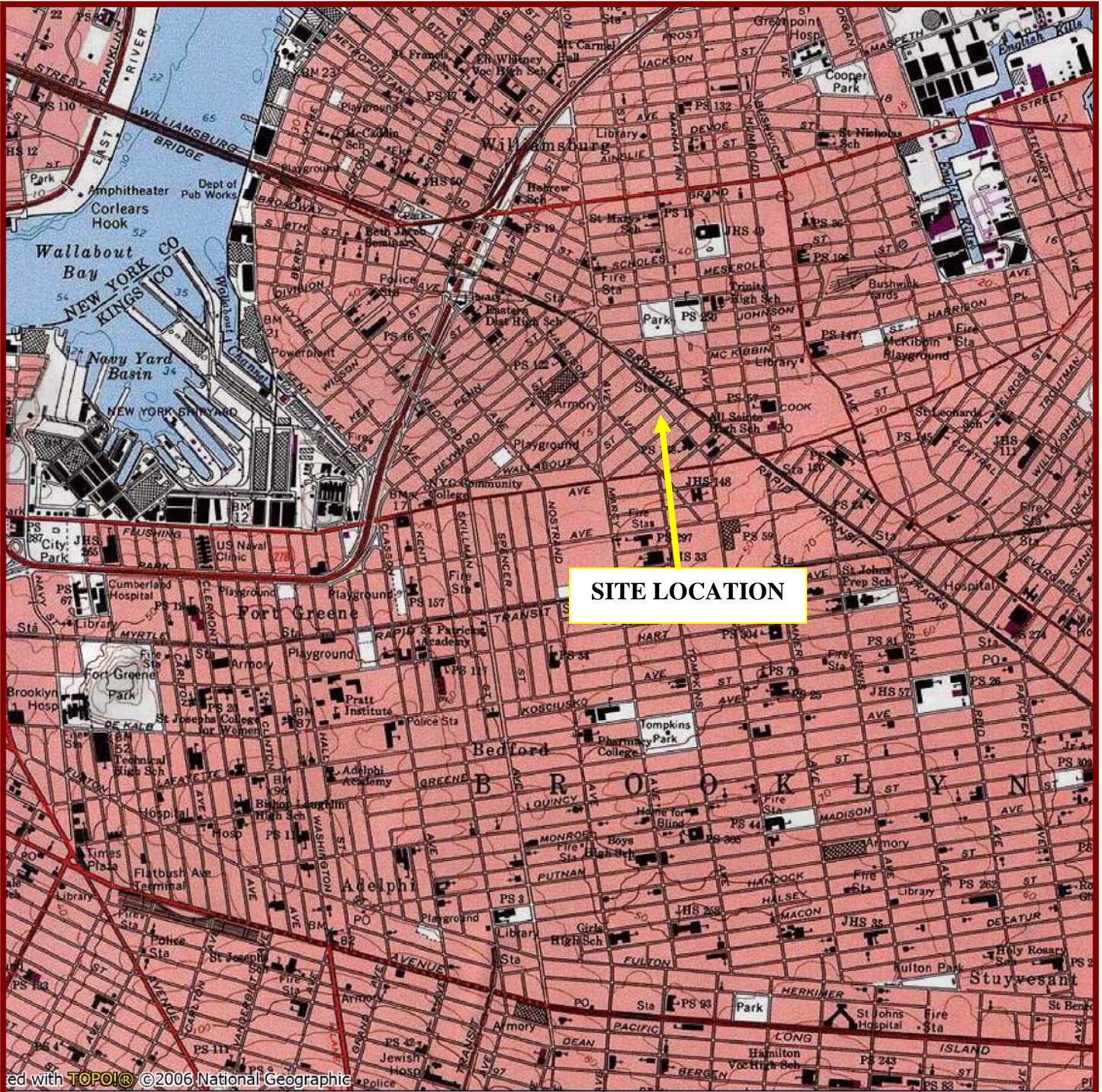
Field Hydrogeologist, 2002-2003

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**PUBLICATIONS**

Chemical Stress Induced by Copper, Examination of a Biofilm System;  
(Water Science Technology, 2006; 54(9): 191-199.)

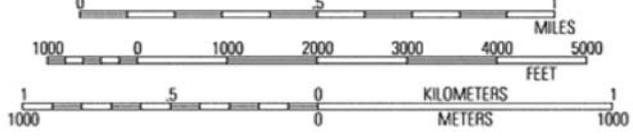
## FIGURES



**SITE LOCATION**

red with TOPOLO ©2006 National Geographic

00' W      73°58.000' W      73°57.000' W      WGS84 73°56.000' W

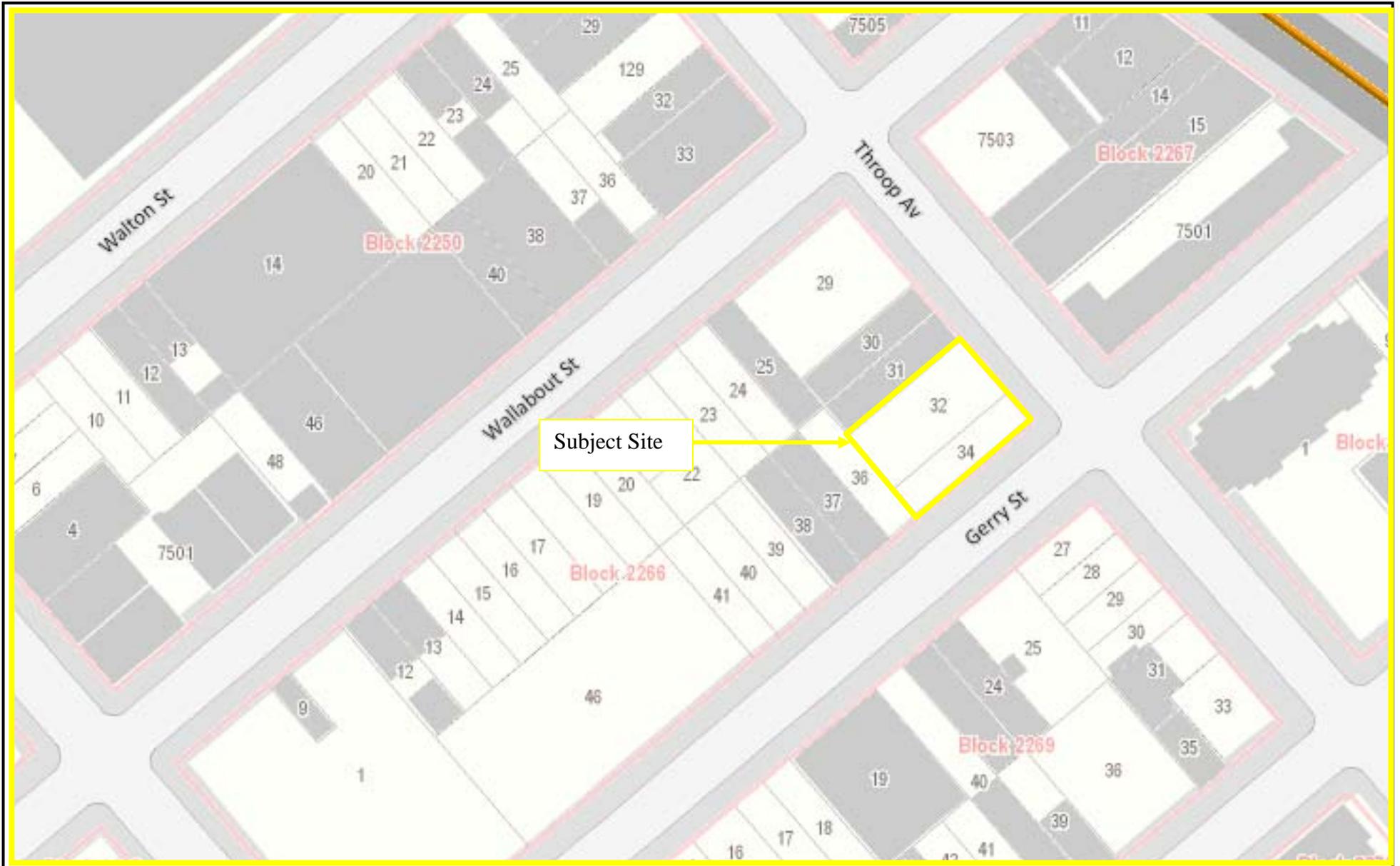


**ENVIRONMENTAL BUSINESS CONSULTANTS**

Phone 631.504.6000  
Fax 631.924.2870

78 THROOP AVENUE  
BROOKLYN, NEW YORK 11206

FIGURE 1 - SITE LOCATION MAP



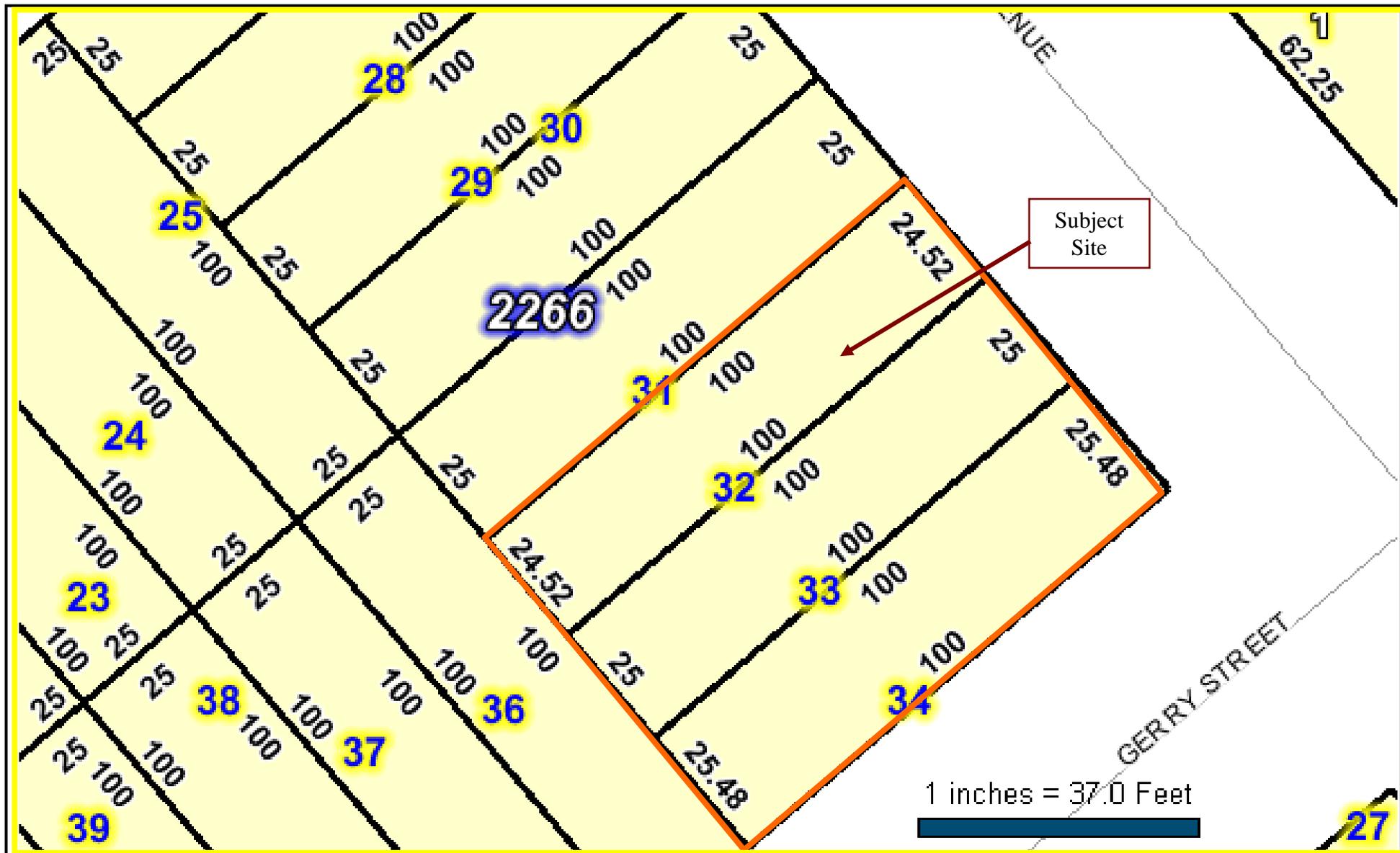
## FIGURE 2A – LOT DIAGRAM

78 THROOP AVENUE  
 BROOKLYN, NEW YORK 11206

PHASE I – ENVIRONMENTAL SITE ASSESSMENT (BLOCK 2266 LOTS 32, 33 and 34)

**EBC**

**ENVIRONMENTAL BUSINESS CONSULTANTS**  
 1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961  
 PHONE: (631) 504-6000 FAX: (631) 924-2870



## FIGURE 2B – LOT DIAGRAM

78 THROOP AVENUE  
 BROOKLYN, NEW YORK 11206

PHASE I – ENVIRONMENTAL SITE ASSESSMENT (BLOCK 2266 LOTS 32, 33 and 34)

**EBC**

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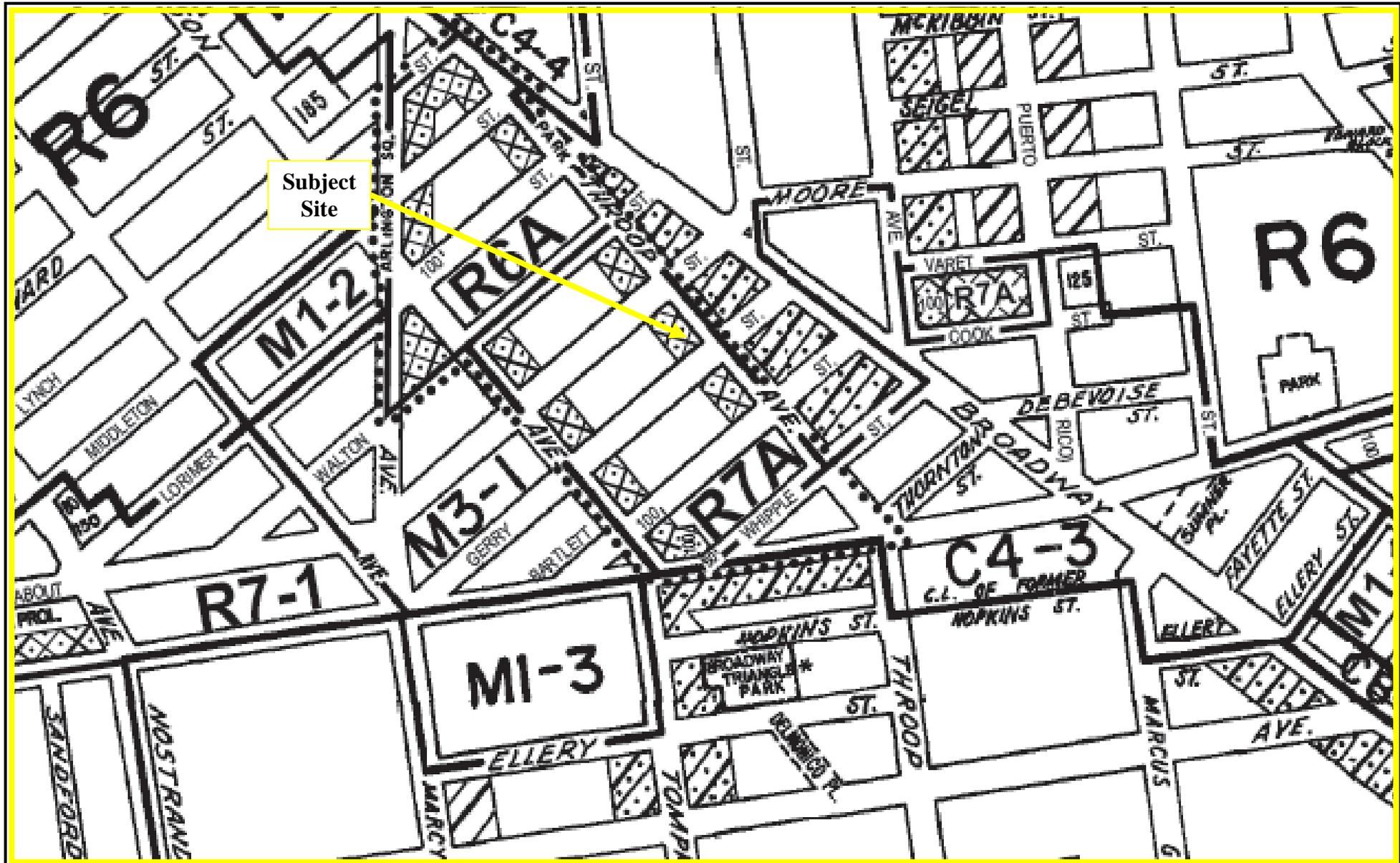
## FIGURE 3 – AERIAL MAP

78 THROOP AVENUE  
BROOKLYN, NEW YORK 11206

PHASE I – ENVIRONMENTAL SITE ASSESSMENT (BLOCK 2266 LOTS 32, 33 and 34)

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1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961  
PHONE: (631) 504-6000 FAX: (631) 924-2870



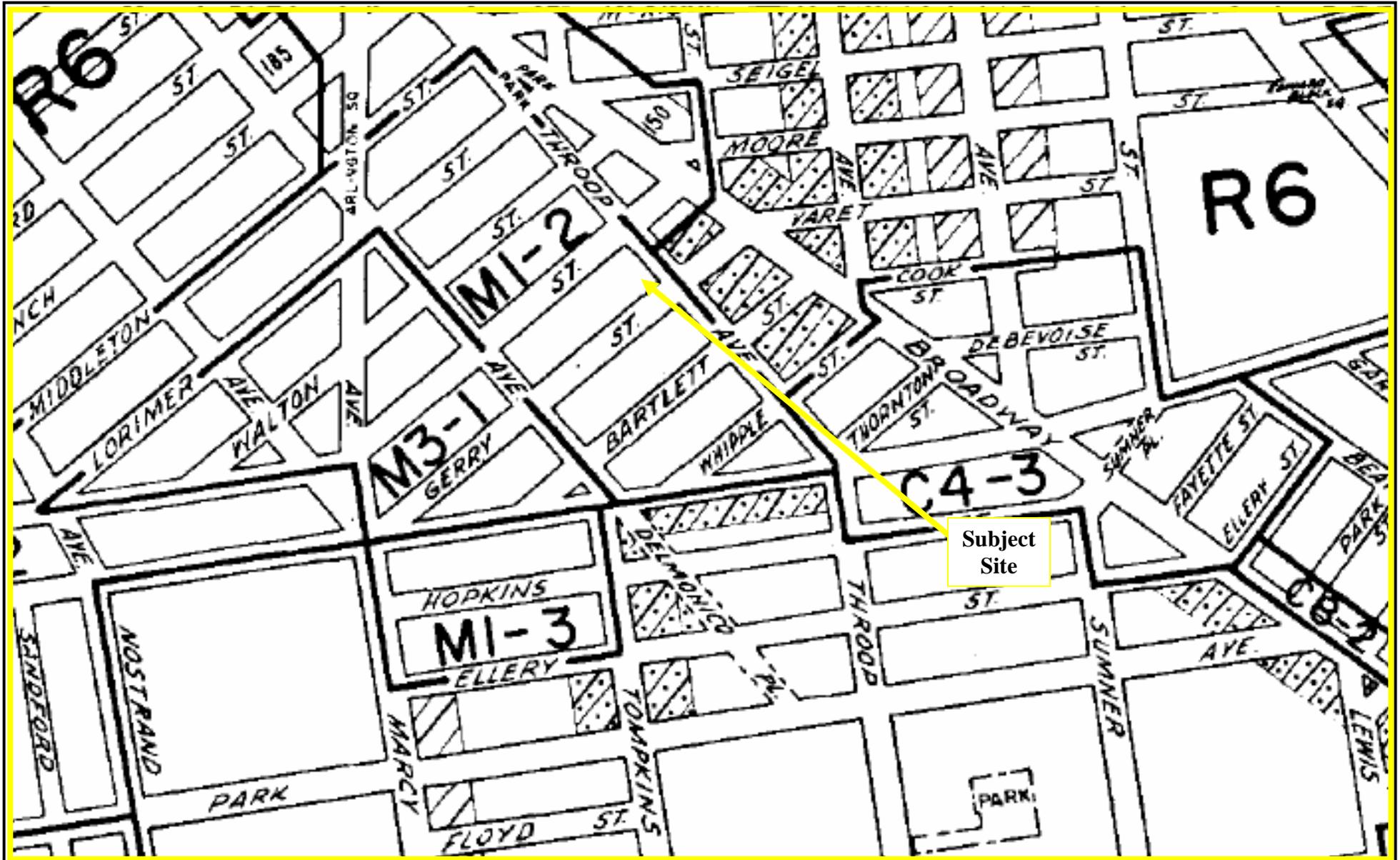
## FIGURE 4A – ZONING MAP

78 THROOP AVENUE  
 BROOKLYN, NEW YORK 11206

PHASE I – ENVIRONMENTAL SITE ASSESSMENT (BLOCK 2266 LOT 32)

**EBC**

ENVIRONMENTAL BUSINESS CONSULTANTS  
 1808 Middle Country Road, Ridge, New York 11961  
 Phone: (631) 504-6000 Fax: (631) 924-2870



## FIGURE 4B – HISTORIC ZONING MAP

78 THROOP AVENUE  
 BROOKLYN, NEW YORK 11206

PHASE I – ENVIRONMENTAL SITE ASSESSMENT (BLOCK 2266 LOT 32)

**EBC**

ENVIRONMENTAL BUSINESS CONSULTANTS  
 1808 Middle Country Road, Ridge, New York 11961  
 Phone: (631) 504-6000 Fax: (631) 924-2870

# APPENDIX A

## SITE PHOTOGRAPHS



Photo 1 – View of the Site from Throop Avenue.



Photo 2 - View of the Throop Avenue sidewalk in front of Site.



Photo 3– Close up view of groundcover with vegetation on the Site.



Photo 4 – Additional view of the Site.

## **ADJACENT PROPERTY PHOTOS**



Photo 5 – View of the front of the adjacent property to the north, 1-story brick industrial building (76 Throop Avenue).

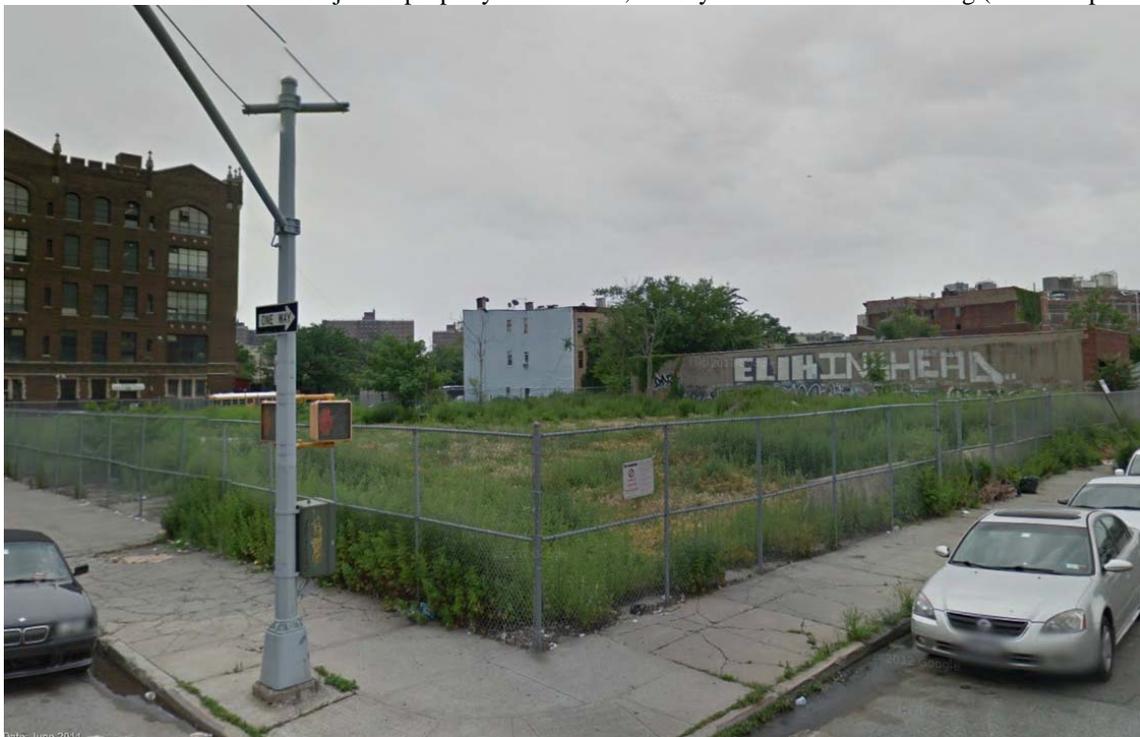


Photo 6 – View of adjacent properties to the south (source-www.google.com -streetview maps).



Photo 7 – View of adjacent property to the east, a 6-story apartment building (63-67 Throop Avenue).



Photo 8 – From right to left a view of the adjacent property to the west, a vacant lot (99 Gerry Street) with a mixed use building at 97 Gerry Street.

# APPENDIX B

## LOCAL AGENCY INFORMATION



**ENVIRONMENTAL BUSINESS CONSULTANTS**

---

May 1, 2012

Freedom of Information Officer  
New York City Department of Health  
125 Worth Street  
New York, New York 10013

**Re: Freedom of Information Request  
78 Throop Avenue, Brooklyn, NY 11206  
Block 2266, Lot 32**

Dear Sir or Madam:

Environmental Business Consultants (EBC) has been retained to prepare a Phase I Environmental Site Assessment for the properties located at the above referenced addresses (Block 2266, Lot 32 in Brooklyn).

We are requesting available copies of environmental files, records, and memoranda concerning the property. This information should include: 1) past and present underground storage tank registration(s); 2) reported spills or releases of hazardous substances; 3) generation, storage, treatment, or disposal of hazardous substances; 4) past or present groundwater, surface water, and soil investigations; 5) environmental permits/violations.

We will gladly pay copying costs.

Please advise if this request can be accommodated in an expedient manner. We would like to schedule an appointment to copy the file/records if this is not possible. Feel free to call with any questions or if additional information is needed to respond to this request.

Very truly yours,

Dominick Mosca  
Environmental Scientist



**ENVIRONMENTAL BUSINESS CONSULTANTS**

1808 Middle Country  
Road  
Ridge, NY 11961

PHONE  
FAX  
E-MAIL

631.504.6000  
631.924.2870  
kbrussee@optonline.net



**ENVIRONMENTAL BUSINESS CONSULTANTS**

---

May 1, 2012

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New York City Department of Health  
125 Worth Street  
New York, New York 10013

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Very truly yours,

Dominick Mosca  
Environmental Scientist



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1808 Middle Country  
Road  
Ridge, NY 11961

PHONE  
FAX  
E-MAIL

631.504.6000  
631.924.2870  
kbrussee@optonline.net

NYC Department of Buildings  
Property Profile Overview

78 THROOP AVENUE  
THROOP AVENUE

78 - 78

BROOKLYN 11206

Census Tract : 507  
Community Board : 301

BIN# 3398094

Tax Block : 2266  
Tax Lot : 32  
Condo : NO  
Vacant : YES

[View DCP Addresses...](#) [Browse Block](#)

[View Zoning Documents](#)

[View Challenge Results](#)

[View Certificates of Occupancy](#)

Cross Street(s): WALLABOUT STREET, GERRY STREET  
 DOB Special Place Name:  
 DOB Building Remarks: BLOCK 2266 NEW LOT # 32...(3/12)  
 Landmark Status: **Special Status:** N/A  
 Local Law: NO **Loft Law:** NO  
 SRO Restricted: NO **TA Restricted:** NO  
 UB Restricted: NO  
 Little 'E' Restricted: HAZMAT/NOISE/AIR **Grandfathered Sign:** NO  
 Legal Adult Use: NO **City Owned:** NO  
 Additional BINs for Building: NONE

Special District: UNKNOWN

This property is not located in an area that may be affected by Tidal Wetlands, Freshwater Wetlands, or Coastal Erosion Hazard Area. [Click here for more information](#)

Department of Finance Building Classification: V1-VACANT LAND

**Please Note:** The Department of Finance's building classification information shows a building's tax status, which may not be the same as the legal use of the structure. To determine the legal use of a structure, research the records of the Department of Buildings.

	Total	Open	
Complaints	0	0	<a href="#">Elevator Records</a>
<a href="#">Violations-DOB</a>	2	0	<a href="#">Electrical Applications</a>
Violations-ECB (DOB)	0	0	<a href="#">Permits In-Process / Issued</a>
<a href="#">Jobs/Filings</a>	2		<a href="#">Illuminated Signs Annual Permits</a>
ARA / LAA Jobs	0		<a href="#">Plumbing Inspections</a>
Total Jobs	2		<a href="#">Open Plumbing Jobs / Work Types</a>
Total Actions	0		<a href="#">Facades</a>
OR Enter Action Type: <input type="text"/>			<a href="#">Marquee Annual Permits</a>
OR Select from List: <input type="text" value="Select.."/>			<a href="#">Boiler Records</a>
AND <input type="button" value="Show Actions"/>			<a href="#">DEP Boiler Information</a>
			<a href="#">Crane Information</a>
			<a href="#">After Hours Variance Permits</a>

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

NYC Department of Buildings  
**Property Profile Overview**

80 THROOP AVENUE  
 THROOP AVENUE

80 - 80

BROOKLYN 11206

Census Tract : 507  
 Community Board : 301

BIN# 3398095

Tax Block : 2266  
 Tax Lot : 33  
 Condo : NO  
 Vacant : YES

[View DCP Addresses...](#) [Browse Block](#)

[View Zoning Documents](#)

[View Challenge Results](#)

[View Certificates of Occupancy](#)

Cross Street(s): WALLABOUT STREET, GERRY STREET  
 DOB Special Place Name:  
 DOB Building Remarks: BLOCK 2266 NEW LOT # 33....(3/12)  
 Landmark Status: **Special Status:** N/A  
 Local Law: NO **Loft Law:** NO  
 SRO Restricted: NO **TA Restricted:** NO  
 UB Restricted: NO  
 Little 'E' Restricted: N/A **Grandfathered Sign:** NO  
 Legal Adult Use: NO **City Owned:** NO  
 Additional BINs for Building: NONE

Special District: UNKNOWN

This property is not located in an area that may be affected by Tidal Wetlands, Freshwater Wetlands, or Coastal Erosion Hazard Area. [Click here for more information](#)

Department of Finance Building Classification: V1-VACANT LAND

**Please Note:** The Department of Finance's building classification information shows a building's tax status, which may not be the same as the legal use of the structure. To determine the legal use of a structure, research the records of the Department of Buildings.

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Violations-DOB	0	0	<a href="#">Electrical Applications</a>
Violations-ECB (DOB)	0	0	<a href="#">Permits In-Process / Issued</a>
<a href="#">Jobs/Filings</a>	1		<a href="#">Illuminated Signs Annual Permits</a>
ARA / LAA Jobs	0		<a href="#">Plumbing Inspections</a>
Total Jobs	1		<a href="#">Open Plumbing Jobs / Work Types</a>
Total Actions	0		<a href="#">Facades</a>
OR Enter Action Type: <input type="text"/>			<a href="#">Marquee Annual Permits</a>
OR Select from List: <input type="text" value="Select.."/>			<a href="#">Boiler Records</a>
AND <input type="button" value="Show Actions"/>			<a href="#">DEP Boiler Information</a>
			<a href="#">Crane Information</a>
			<a href="#">After Hours Variance Permits</a>

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NYC Department of Buildings  
Application Details

JUMP TO:

Premises: 78 THROOP AVENUE BROOKLYN  
BIN: [3398094](#) Block: 2266 Lot: 32

Job No: 320450720  
Document: 01 OF 2

Job Type: NB - NEW BUILDING

<a href="#">Document Overview</a>	<a href="#">Items Required</a>	<a href="#">Virtual Job Folder</a>	<a href="#">All Permits</a>	<a href="#">Schedule A</a>	<a href="#">Schedule B</a>
<a href="#">Fees Paid</a>	<a href="#">Forms Received</a>		<a href="#">All Comments</a>	<a href="#">C/O Summary</a>	<a href="#">Plumbing Inspections</a>
<a href="#">Crane Information</a>	<a href="#">Plan Examination</a>			<a href="#">C/O Preview</a>	
<a href="#">After Hours Variance Permits</a>					

Development Challenge Process is pending Zoning Approval. For any issues, please contact the relevant borough office.

Last Action: PLAN EXAM - DISAPPROVED 04/03/2012 (J)

Pre-Filed: 03/19/2012 Building Type: Other Estimated Total Cost: \$0.00  
Date Filed: 03/20/2012 Fee Structure: STANDARD Filing Method: E-FILED  
Review is requested under Building Code: 2008

[Job Description](#) [Comments](#)

1 Location Information (Filed At)

House No(s): 78 Street Name: THROOP AVE  
Borough: Brooklyn Block: 2266 Lot: 32 BIN: [3398094](#) CB No: 301  
Work on Floor(s): CEL 001 thru 004 Apt/Condo No(s):

2 Applicant of Record Information

Name: PANOS VIKATOS  
Business Name: PANOS VIKATOS RA Business Phone: 917-412-7105  
Business Address: 249-33 BEACH KNOLL AVE LITTLE NECK HIL NY 11362 Business Fax:  
E-Mail: Mobile Telephone:  
License Number: 034254  
Applicant Type:  P.E.  R.A.  Sign Hanger  Other

Directive 14 Applicant

Not Applicable

Previous Applicant of Record

Not Applicable

3 Filing Representative

Name: HERSHY/NATHAN FEKETE/HER/MAN  
Business Name: THE BAC GROUP LTD Business Phone: 718-599-1559  
Business Address: 366 BROADWAY BROOKLYN NY 11211 Business Fax:  
E-Mail: Mobile Telephone:  
Registration Number:

4 Filing Status

[Click Here to View](#)

5 Job Types

Alteration Type 1  New Building  
 Change in Exits/Egress  
 Change in Number of Stories  Alteration Type 2  Full Demolition  
 Change in Number of Dwelling Units  Alteration Type 3  Subdivision: Improved  
 Change in Room Count / Dwelling Units  Sign  Subdivision: Condo  
 Change in Occupancy / Use  
 Change inconsistent with current Cert. of Occup.  
 Alteration Type 1, OT "No Work" Directive 14 acceptance requested?  Yes  No

6 Work Types

BL - Boiler  FA - Fire Alarm  FB - Fuel Burning  FS - Fuel Storage  
 FP - Fire Suppression  MH - Mechanical  PL - Plumbing  SD - Standpipe  
 SP - Sprinkler  EQ - Construction Equipment  CC - Curb Cut

OT - GEN. CONSTR.

**7 Plans/Construction Documents Submitted**

Plans Page Count: Not Provided

**8 Additional Information**

Enlargement proposed?

No  Yes  Horizontal  Vertical

Total Construction Floor Area: 8,125 sq.ft.

**9 Additional Considerations, Limitations or Restrictions**

Yes No

- Structural peer review required per BC §1627 Peer Reviewer License No.(P.E.):
- Filed to Comply with Local Law Local Law No./Year:
- Other, Specify:
- Restrictive Declaration / Easement
- Zoning Exhibit Record (I,II,III,etc)
- Landmark
- Filed to Address Violation(s)
- Legalization
- "Little E" Hazmat Site
- Unmapped Street Yes No
- Adult Establishment   Included in LMCCC
- Compensated Development (Inclusionary Housing)   Infill Zoning
- Low Income Housing (Inclusionary Housing)   Loft Board
- Single Room Occupancy (SRO) Multiple Dwelling   Quality Housing
- Filing includes Lot Merger / Reapportionment (If Yes,17)
- Includes permanent removal of standpipe, sprinkler or fire suppression related systems
- Work includes partial demolition as defined in AC §28-101.5
- Structural Stability affected by proposed work
- Work includes lighting fixture and/or controls, installation or replacement. [§ECC 404 and 505]
- Site Safety Job / Project

BSA Calendar No.(s):

CPC Calendar No.(s):

**10 NYCECC Compliance *New York City Energy Conservation Code* (Applicant Statement)**

To the best of my knowledge, belief and professional judgment, this application is in compliance with the NYCECC.

Energy analysis is on another job number:

Yes No

This application is, or is part of, a project that utilizes trade-offs among different major systems

This application utilizes trade-offs within a single major system

To the best of my knowledge, belief and professional judgment, all work under this application is exempt from the NYCECC in accordance with one of the following:

- The work is an alteration of State or National historic building.
- The scope of work is entirely in a low-energy building and is limited to the building envelope.
- The scope of work does not affect the energy use of the building.
- This is a post-approval amendment and exempt under a prior edition of the energy code.

**11 Job Description**

LOT # 32 AND 33,ARE 78 AND 80 THROOP AVE AND ARE FILED AS A SINGLE ZONING LOT, 3 SEPERATE TAX LOTS AND 3 SEPERATE NB APPLICATIONS EACH A 4 STORY AND CELLAR 3 FAMILY BUILDING

Related BIS Job Numbers:

Primary application Job Number:

**12 Zoning Characteristics**

District(s): R7A - GENERAL RESIDENCE DISTRICT

Overlay(s): C2-4 - LOCAL SERVICE DISTRICT

Special District(s):

Map No.: 12d Street legal width (ft.): 70 Street status:  Public  Private

Zoning lot includes the following tax lots: Not Provided

Proposed: Use	Zoning Area (sq.ft.)	District	FAR
RESIDENTIAL	8,125	R7A	3.45
<b>Proposed Totals:</b>	8,125	--	3.45
<b>Existing Total:</b>		--	--

Proposed Lot Details: Lot Type:  Corner  Interior  Through

Lot Coverage (%): 65 Lot Area (sq.ft.): 2,500 Lot Width (ft.): 25

Proposed Yard Details:  No Yards Or  
Front Yard (ft.): 0 Rear Yard (ft.): 31 Rear Yard Equivalent (ft.): 0  
Side Yard 1 (ft.): 0 Side Yard 2 (ft.): 0

Proposed Other Details: Perimeter Wall Height (ft.): 31  
Enclosed Parking?  Yes  No No. of parking spaces:

**13 Building Characteristics**

Primary structural system:  Masonry  Concrete (CIP)  Concrete (Precast)  Wood

**Proposed**

**Structural Occupancy Category:** I - LOW HAZARD TO HUMAN LIFE  
**Seismic Design Category:** CATEGORY B

**2008 Code Designations?**

**Occupancy Classification:** R-2 - RESIDENTIAL: APARTMENT HOUSES  
**Construction Classification:** II-A: 1 HOUR PROTECTED - NON-COMBUS  
**Multiple Dwelling Classification:** HAEA  
**Building Height (ft.):** 40  
**Building Stories:** 4  
**Dwelling Units:** 3

Yes  No  
 Yes  No

**Mixed use building?**  Yes  No

**14 Fill**

Not Applicable  Off-Site  On-Site  Under 300 cubic yards

**15 Construction Equipment**

Chute  Sidewalk Shed **Construction Material:** WOOD/METAL  
 Fence **Size:** linear ft. **BSA/MEA Approval No.:**  
 Supported Scaffold  Other

**16 Curb Cut Description**

Not Applicable

**17 Tax Lot Characteristics**

Not Provided

**18 Fire Protection Equipment**

	Existing		Proposed		Existing		Proposed		
	Yes	No	Yes	No	Yes	No	Yes	No	
Fire Alarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sprinkler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fire Suppression	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Standpipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**19 Open Spaces**

Not Provided

**20 Site Characteristics**

Yes	No	Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Tidal / Fresh Water Wetlands	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Urban Renewal	<input type="checkbox"/>
		Fire District	<input type="checkbox"/>
		Flood Hazard Area	<input checked="" type="checkbox"/>

**21 Demolition Details**

Not Applicable

**22 Asbestos Abatement Compliance**

Not Applicable

**23 Signs**

Not Applicable

**24 Comments**

**25 Applicant's Statements and Signatures ( See paper form or check [Forms Received](#) )**

**Yes No**

- For New Building and Alteration 1 applications filed under the 2008 NYC Building Code only: does this building qualify for high-rise designation?
- Directive 14 applications only: I certify that the construction documents submitted and all construction documents related to this application do not require a new or amended Certificate of Occupancy as there is no change in use, exits, or occupancy.

**26 Owner's Information**

**Name:** SIMON DUSHINSKY

**Relationship to Owner:** OWNER

**Business Name:** NORTH DRIGGS HOLDINGS LLC

**Business Phone:** 718-246-4762

**Business Address:** 39 HEYWARD ST NEW YORK NY 11205

**Business Fax:**

**E-Mail:**

**Owner Type:** CORPORATION

**Non Profit:**  Yes  No

**Yes No**

- Owner's Certification Regarding Occupied Housing (Remain Occupied)
- Owner's Certification Regarding Occupied Housing (Rent Control / Stabilization)
- Owner DHCR Notification
- Owner's Certification for Adult Establishment
- Owner's Certification for Directive 14 (if applicable)

**Condo / Co-Op or Corporation Second Officer**

**Name:** ISSAC RABINOWITZ

**Title:** VP

**Business Name:** NORTH DRIGGS HOLDINGSLLC

**Business Phone:** 718-246-4762

**Business Address:** 39 HEYWARD ST NEW YORK NY 11205

**Business Fax:**

**E-Mail:**

**Metes and Bounds**

To view metes and bounds, see the Plot Diagram (form PD-1). A scanned image may be available [here](#).

---

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

NYC Department of Buildings  
Application Details

JUMP TO:

Premises: 78 THROOP AVENUE BROOKLYN  
BIN: [3398094](#) Block: 2266 Lot: 32

Job No: 320450720  
Document: 02 OF 2

Job Type: NB - NEW BUILDING

<a href="#">Document Overview</a>	<a href="#">Items Required</a>	<a href="#">Virtual Job Folder</a>	<a href="#">All Permits</a>	<a href="#">Schedule A</a>	<a href="#">Schedule B</a>
<a href="#">Fees Paid</a>	<a href="#">Forms Received</a>		<a href="#">All Comments</a>	<a href="#">C/O Summary</a>	<a href="#">Plumbing Inspections</a>
<a href="#">Crane Information</a>	<a href="#">Plan Examination</a>			<a href="#">C/O Preview</a>	
<a href="#">After Hours Variance Permits</a>					

Development Challenge Process is pending Zoning Approval. For any issues, please contact the relevant borough office.

**Last Action:** APPLICATION PROCESSED - ENTIRE 04/18/2012 (D)

Pre-Filed: 04/17/2012 Building Type: Other Estimated Total Cost: \$0.00  
Date Filed: 04/18/2012 Fee Structure: STANDARD Filing Method: E-FILED

[Job Description](#) [Comments](#)

**1 Location Information (Filed At)**

House No(s): 78 Street Name: THROOP AVE  
Borough: Brooklyn Block: 2266 Lot: 32 BIN: [3398094](#) CB No: 301  
Work on Floor(s): OSP Apt/Condo No(s):

**2 Applicant of Record Information**

Name: PANOS VIKATOS  
Business Name: PANOS VIKATOS RA Business Phone: 917-412-7105  
Business Address: 249-33 BEACH KNOLL AVE LITTLE NECK HIL NY 11362 Business Fax:  
E-Mail: Mobile Telephone:  
License Number: 034254  
Applicant Type:  P.E.  R.A.  Sign Hanger  Other

**Directive 14 Applicant**

Not Applicable

**Previous Applicant of Record**

Not Applicable

**3 Filing Representative**

Name: HERSHY/NATHAN FEKETE/HERMAN  
Business Name: THE BAC GROUP LTD Business Phone: 718-599-1559  
Business Address: 366 BROADWAY BROOKLYN NY 11211 Business Fax:  
E-Mail: Mobile Telephone:  
Registration Number:

**4 Filing Status**

[Click Here to View](#)

**5 Job Types**

Alteration Type 1  New Building  
 Change in Exits/Egress  
 Change in Number of Stories  Alteration Type 2  Full Demolition  
 Change in Number of Dwelling Units  Alteration Type 3  Subdivision: Improved  
 Change in Room Count / Dwelling Units  Sign  Subdivision: Condo  
 Change in Occupancy / Use  
 Change inconsistent with current Cert. of Occup.  
 Alteration Type 1, OT "No Work" Directive 14 acceptance requested?  Yes  No

**6 Work Types**

BL - Boiler  FA - Fire Alarm  FB - Fuel Burning  FS - Fuel Storage  
 FP - Fire Suppression  MH - Mechanical  PL - Plumbing  SD - Standpipe  
 SP - Sprinkler  EQ - Construction Equipment  CC - Curb Cut

OT - Other

**7 Plans/Construction Documents Submitted**

Plans Page Count: See Document 01 for totals

**8 Additional Information**

Not Applicable

**9 Additional Considerations, Limitations or Restrictions**

See 01 Document for this Information

**10 NYCECC Compliance *New York City Energy Conservation Code* (Applicant Statement)**

Not Provided

**11 Job Description**

SIDEWALK SHED FILED IN CONJUNCTION WITH 78 AND 80 THROOP AVE FOR A TOTAL STREET FRONTAGE OF 50 LINEAR FEET.

Related BIS Job Numbers: [320450720](#)

Primary application Job Number:

**12 Zoning Characteristics**

See 01 Document for this Information

**13 Building Characteristics**

See 01 Document for this Information

**14 Fill**

See 01 Document for this Information

**15 Construction Equipment**

Chute

Sidewalk Shed

Construction Material: WOOD/METAL

Fence

Size: 50 linear ft.

BSA/MEA Approval No.:

Supported Scaffold

Other

**16 Curb Cut Description**

Not Applicable

**17 Tax Lot Characteristics**

See 01 Document for this Information

**18 Fire Protection Equipment**

See 01 Document for this Information

**19 Open Spaces**

Not Provided

**20 Site Characteristics**

See 01 Document for this Information

**21 Demolition Details**

Not Applicable

**22 Asbestos Abatement Compliance**

Not Applicable

**23 Signs**

Not Applicable

**24 Comments**

**25 Applicant's Statements and Signatures ( See paper form or check [Forms Received](#) )**

See 01 Document for this Information

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Relationship to Owner: OWNER

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Non Profit:  Yes  No

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Title: VP

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Business Phone: 718-246-4762

Business Address: 39 HEYWARD ST NEW YORK NY 11205

Business Fax:

E-Mail:

**Metes and Bounds**

To view metes and bounds, see the Plot Diagram (form PD-1). A scanned image may be available [here](#).

HELP

[Click help for additional instructions]  
Selecting a help option will open new window

**Current Search Criteria:**

**Borough:** BROOKLYN  
**Block:** 2266  
**Lot:** 32  
**Date Range:**  
**Document Class:** All Document Classes

# Search Results By Parcel Identifier

Records 1 - 10 << [previous](#) [next](#) >>

Max Rows

[\[Search Options\]](#) [\[New BBL Search\]](#) [\[Edit Current Search\]](#) [\[View Tax Map\]](#) [\[Print Index\]](#)

View	Reel/Pg/File	CRFN	Lot	Partial	Recorded / Filed	Document Type	Pages	Party1	Party2	Party 3/ Other	More Party 1/2 Names	Corrected/ Remarks	Doc Amount
<a href="#">DET</a> <a href="#">IMG</a>	4000/2238		32	ENTIRE LOT	8/19/1997	DEED	3	SIMEK, KAREL	RAMOOE INC				0
<a href="#">DET</a> <a href="#">IMG</a>	1389/1050		32	ENTIRE LOT	4/20/1983	DEED	2	NEW YORK CITY	SIMEK, KAREL C				0
<a href="#">DET</a> <a href="#">IMG</a>	1079/50		32	ENTIRE LOT	6/14/1979	DEED	52	COMMISSIONER OF FINANCE OF THE CITY OF NEW YORK	THE CITY OF NEW YORK		✓	✓	0
<a href="#">DET</a> <a href="#">IMG</a>	396/1134		32	ENTIRE LOT	2/27/1970	DEED	2	US REHABILITATION CORP	618 EAST 140TH ST CORP				0
<a href="#">DET</a> <a href="#">IMG</a>	396/1132		32	ENTIRE LOT	2/27/1970	DEED	2	78 THROOP REALTY CORP	US REHABILITATION CORP				0
<a href="#">DET</a> <a href="#">IMG</a>	27/252		32	ENTIRE LOT	6/28/1966	SUNDRY AGREEMENT	6	GERGES ABRAHAM G			✓		0
<a href="#">DET</a> <a href="#">IMG</a>	167/284		32	ENTIRE LOT	6/22/1966	DEED	2	MEL BAR BEL RLTY CORP	78 THROOP AVE RLTY CORP				0
<a href="#">DET</a> <a href="#">IMG</a>	26/335		32	ENTIRE LOT	1/27/1966	SUNDRY AGREEMENT	6	ASHKENAZY ISIDORE			✓		0
<a href="#">DET</a> <a href="#">IMG</a>	26/331		32	ENTIRE LOT	1/27/1966	MORTGAGE	4	MEL BAR BEL RLTY CORP	ASHKENAZY ISIDORE		✓		0
<a href="#">DET</a> <a href="#">IMG</a>	26/325		32	ENTIRE LOT	1/27/1966	DEED	2	BUILDING REHABILITATION CORP OF NEW YORK	MEL BAR BEL REALTY CORP		✓		0

[Search Options](#)

[New Parcel Identifier Search](#)

[Edit Current Search](#)

[View Tax Map](#)





CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT--THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

*Handwritten notes:*  
No amount  
2260  
8.00  
1.07

THIS INDENTURE, made the 23rd day of December, nineteen hundred and sixty nine  
BETWEEN U. S. REHABILITATION CORPORATION a New York domestic corporation with  
offices at 111 Court Street, Brooklyn, New York,

party of the first part, and 618 East 140th St. CORP., a New York domestic corporation  
with offices at 70 Morton Street, Brooklyn, New York,

party of the second part,

WITNESSETH, that the party of the first part, in consideration of ten dollars paid by the party of the second  
part, does hereby remise, release and quitclaim unto the party of the second part, the heirs or successors and  
assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate,  
lying and being in the Borough of Brooklyn, County of Kings, City and State of New York,  
bounded and described as follows:

BEGINNING at a point on the westerly side of Throop Avenue, distant twenty-  
five (25) feet five and three-quarter (5 3/4) inches northerly from the corner formed  
by the intersection of the northerly side of Gerry Street with the westerly side of  
Throop Avenue; running thence westerly parallel with Gerry Street one hundred (100)  
feet; thence northerly parallel with Throop Avenue forty-nine (49) feet six and one-  
quarter (6 1/4) inches; thence easterly again parallel with Gerry Street one-hundred  
(100) feet to the westerly side of Throop Avenue; and thence southerly along the  
westerly side of Throop Avenue forty-nine (49) feet six and one-quarter (6 1/4) inches  
to the point or place of BEGINNING.

TOGETHER with all the right, title and interest of the party of the first part  
of, in and to the land lying in Throop Avenue, in front of and adjoining said premises  
to the centre line thereof.

SAID premises being known as and by street number 78-80 Throop Avenue,  
Brooklyn, New York.

REAL ESTATE STATE OF NEW YORK  
TRADING OR FINANCIAL CORPORATION  
Dept. of Taxation & Finance  
\$ 00.00  
ONK

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and  
roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances  
and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO  
HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of  
the party of the second part forever.

AND the party of the first part, in compliance with Section 13 of the Lien Law, hereby covenants that the party  
of the first part will receive the consideration for this conveyance and will hold the right to receive such consid-  
eration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply  
the same first to the payment of the cost of the improvement before using any part of the total of the same for  
any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above  
written.

IN PRESENCE OF:



U. S. REHABILITATION CORPORATION

By: Abraham G. Gerges  
ABRAHAM G. GERGES, Vice-President

FILED  
336  
1134

STATE OF NEW YORK, COUNTY OF **King**  
On the      day of      19     , before me  
personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

STATE OF NEW YORK, COUNTY OF **King**  
On the      day of      19     , before me  
personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

REC 386-1135

STATE OF NEW YORK, COUNTY OF **King**  
On the 23rd day of December, 1969, before me personally came ABRAHAM G. GERGES to me known, who, being by me duly sworn, did depose and say that he resides at No. 1245 E. 105th Street, Brooklyn, New York; that he is the Vice-President of U. S. Rehabilitation Corporation

STATE OF NEW YORK, COUNTY OF **King**  
On the      day of      19     , before me personally came the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No.      that he knows

made in and which executed the foregoing instrument, that he knows the seal of said corporation; that the seal attached to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed his name thereto by like order.

to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed his name as witness thereto.

*[Signature]*  
ELLIOT SHEPTMAN  
Notary Public in and for the State of New York  
Qualified in Kings County  
Commission Expires March 30, 1970  
SHEPTMAN

**Quitclaim Deed**

TITLE NO. \_\_\_\_\_

U. S. REHABILITATION CORPORATION

TO

618 E. 140th St. CORP.

7490

SECTION  
BLOCK 224  
LOT 32  
COUNTY OR TOWN KINGS

LOG. VLR. *[Signature]*

Recorded At Request of The Title Guarantee Company  
RETURN BY MAIL TO:



NOT SUBJECT TO NYC TAX

MR. BENCION TABAK  
70 Morton Street  
Brooklyn, New York  
Zip No. \_\_\_\_\_

RECORDING OFFICE  
1970 FEB 27 AM 2:30  
90062  
90007  
REC. TAX EXEMPT  
SMR #2  
RPT # 3809  
OFFICE OF CITY REGISTER  
KINGS COUNTY  
RECORDS BY HAND  
THIS INSTRUMENT HAS  
EXPIRES BY HAND  
CITY REGISTER





SL 11173

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 25<sup>th</sup> day of June, nineteen hundred and ninety-seven BETWEEN

KAREL SIMER  
306 East 120th Street  
New York, N.Y. 10035

party of the first part, and RAMOOR INC.  
527 Bedford Avenue  
Brooklyn, N.Y. 11211

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, bounded and described as follows:

BEGINNING at a point on the westerly side of Throop Avenue, distant twenty-five (25) feet five and three-quarter (5-3/4) inches northerly from the corner formed by the intersection of the northerly side of Gerry Street with the westerly side of Throop Avenue;

RUNNING THENCE westerly parallel with Gerry Street one hundred (100) feet;

THENCE northerly parallel with Throop Avenue forty-nine (49) feet six and one-quarter (6-1/4) inches;

THENCE easterly again parallel with Gerry Street one-hundred (100) feet to the westerly side of Throop Avenue; and

THENCE southerly along the westerly side of Throop Avenue forty-nine (49) feet six and one-quarter (6-1/4) inches to the point or place of BEGINNING.

*Being the same premises conveyed to grantor herein by deed dated 2/9/83 recorded 4/20/83 in reel 1389 page 1050.*

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid. AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose. The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

*[Signature]*

*[Signature]*  
KAREL SIMER

REEL 4 DDD OFS 2238

TT 380

STATE OF NEW YORK, COUNTY OF *New York*  
On the *26* day of June 19*97*, before me

personally came *C.*  
KAREL SIMEK  
to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

*[Signature]*  
BERNARD A. SHAFAN  
Notary Public, State of New York  
No. 41-466536  
Qualified in Queens County  
Commission Expires Oct. 31, 19*98*

STATE OF NEW YORK, COUNTY OF  
On the day of 19, before me personally came

to me known to be the individual described in and who executed the foregoing instrument, and acknowledged that executed the same.

STATE OF NEW YORK, COUNTY OF  
On the day of 19, before me personally came

to me known, who, being by me duly sworn, did depose and say that he resides at No.

that he is the of

the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed his name thereto by like order.

STATE OF NEW YORK, COUNTY OF  
On the day of 19, before me personally came

the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No.

that he knows

to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed his name as witness thereto.

DEEL 4000 PS 2239

**Bargain and Sale Deed**

WITH COVENANT AGAINST GRANTOR'S ACTS

TITLE NO. SL 11173

*C.*  
KAREL SIMEK  
TO

RAMOOE INC.

SECTION 8  
BLOCK 2266  
LOT 32  
COUNTY ~~WESTCHESTER~~ Kings

Recorded At Request of  
First American Title Insurance Company of New York  
RETURN BY MAIL TO:



*FRENKEL, HENSHROVITZ + SHAFAN*  
~~BENNY SCHIFFRIN, ESQ.~~  
16 E. 34th Street  
New York, New York  
*BERNARD A. SHAFAN, ESQ.* Zip No. 10016

RESERVE THIS SPACE FOR USE OF RECORDING OFFICE

**CITY REGISTER RECORDING AND ENDORSEMENT PAGE**  
**KINGS COUNTY**  
 (This page forms part of the instrument)

Block(s) 2266  
 Lot(s) 32

Record & Return to: Bernard Shafran, Esq. Frenkel, Hershowitz & Shafran  
16 E 34th St., New York, NY 10016  
 Title/Agent Company name: Sutton Land Services  
 Title Company number: SL 11173

REEL 4000 PG 22401

**CHECK OFF ONLY - DO NOT WRITE BELOW THIS LINE**

THE FOREGOING INSTRUMENT WAS ENDORSED FOR THE RECORD AS FOLLOWS:

Examined by (s): \_\_\_\_\_

Mige Tax Serial No. \_\_\_\_\_  
 Mige Amount \$ \_\_\_\_\_  
 Taxable Amount \$ \_\_\_\_\_

Exemption (✓)  YES  NO

Type:  [30EE]  [255]  [OTHER \_\_\_\_\_]  
CHOOSE ONE OF

Dwelling Type:  [1 or 2]  [3]  [4 or 6]  [OVER 6]  
CHOOSE ONE OF

**TAX RECEIVED ON ABOVE MORTGAGE ▼**

County (basic) \$ \_\_\_\_\_  
 City (Add'l) \$ \_\_\_\_\_  
 Spec Add'l \$ \_\_\_\_\_  
 TASF \$ \_\_\_\_\_  
 MTA \$ \_\_\_\_\_  
 NYCTA \$ \_\_\_\_\_

**TOTAL TAX** \$ \_\_\_\_\_

Apportionment Mortgage (✓) YES  NO

Joy A. Bobrow, City Register

City Register Serial Number **048992**

Indexed By (s): [Signature] Verified By (s): \_\_\_\_\_

Block(s) and Lot(s) verified by (✓): PP  
 Address  Tax Map

Extra Block(s) \_\_\_\_\_ Lot(s) \_\_\_\_\_

Recording Fee \$ 32  
 Affidavit Fee (C) \$ \_\_\_\_\_  
 TP-584/582 Fee (Y) \$ \_\_\_\_\_  
 RPTT Fee (R) \$ 25

HPD-A  HPD-C

**New York State Real Estate Transfer Tax ▼**  
 \$ 380

Serial Number → **000930**

**New York City Real Property Transfer Tax**  
 Serial Number → **13347**

**New York State Gains Tax**  
 Serial Number → \_\_\_\_\_

**RECORDED IN KINGS COUNTY  
 OFFICE OF THE CITY REGISTER**

1997 AUG 19 A 11:07

Witness My Hand and Official Seal



*Joy A. Bobrow*  
 City Register

08-19-97  
 PAID  
 DEED  
 733630  
 432.00

C:\CFR\MSK.BPG 1997

THIS INDENTURE, made the <sup>9<sup>th</sup></sup> day of ~~February~~ nineteen hundred and eighty-three between THE CITY OF NEW YORK, a municipal corporation, having its principal office at City Hall, Borough of Manhattan, City and State of New York, the first party and Karel C. Simek  
 Residing At 156 5th Avenue,  
 New York NY. 10010

hereinafter designated as the second party.

WHEREAS, the Board of Estimate of the City of New York by resolution adopted on the 19 day of August, 1982 (Calendar No. 148), and after the appraisal under the direction of said Board, duly ordered and directed the sale at public auction of the premises therein and hereinafter described for the minimum or upset price of FIVE THOUSAND (5,000.00) DOLLARS

and

WHEREAS, after advertisement in the manner provided by law, said premises were duly sold by and under the direction of the Deputy Commissioner of General Services, Division of Real Property at public auction at the time and place set forth in such advertisement for the sum of FIVE THOUSAND (5,000.00) DOLLARS

that being the highest bid therefor at said sale,

NOW, THEREFORE, WITNESSETH: That the first party, in consideration of the sum of FIVE THOUSAND (5,000.00) DOLLARS

lawful money of the United States, paid by the second party, does hereby grant and release unto the second party, the heirs or successors and assigns of the second party forever,

All that certain piece or parcel of land, together with any improvements thereon, situate, lying and being in the Borough of Brooklyn City and State of New York, designated on the Tax Map of the City of New York, for the Borough of Brooklyn, as said Tax Map was on January 17, 1978  
 Block 2266 Lot/s 32

TO HAVE AND TO HOLD the premises herein granted unto the second party, the heirs or successors and assigns of the second party forever.

Subject to: (1) Any state of facts an accurate survey would show; (2) The rights, if any, of tenants and persons in possession, if any; (3) All violations of any local, State or The Federal Government having jurisdiction thereof existing at the time of closing; (4) Building restrictions and to zoning regulations in force at the time of the delivery of the deed and to covenants, restrictions of record, and easements affecting the subject property; (5) The trust fund provisions of section thirteen of the Lien Law; and (6) All pending assessments, if any, which the second party will assume; and (7) All provisions of The Standard Terms and Conditions of Sale in force and effect at the time of the Sale that are applicable.

In the event of the acquisition by The City of New York by condemnation or otherwise of any part or portion of the above premises lying within the bed of any street, avenue, parkway, expressway, park, public place or catch-basin as said street, avenue, parkway, expressway, park, public place or catch-basin is shown on the present City Map, the party of the second part the heirs or successors and assigns of the party of the second part, shall only be entitled as compensation for such acquisition by the The City to the amount of one dollar, and shall not be entitled to compensation for any buildings or structures erected thereon within the lines of the street, avenue, parkway, expressway, park, public place or catch-basin so laid out and acquired. This covenant shall be binding upon and run with the land and shall endure until the City Map is changed so as to eliminate from within the lines of said street, avenue, parkway, expressway, park, public place or catch-basin any part or portion of the premises and no longer.

IN WITNESS WHEREOF, the party of the first part has caused these presents to be subscribed to by the Deputy Commissioner of General Services, Division of Real Property and by the City Clerk and its corporate seal to be hereunto affixed the day and year first above written.

THE CITY OF NEW YORK

Approved as to Form

By [Signature]  
Deputy Commissioner of General Services  
Division of Real Property

[Signature]  
Asst. Corporation Counsel

By [Signature]  
City Clerk

STATE OF NEW YORK, )  
COUNTY OF NEW YORK ) ss:

On this 9th day of FEBRUARY, 1983, before me personally came TERRENCE MOAN, to me known and known to me to be the Deputy Commissioner of General Services, Division of Real Property of the City of New York and the same person who executed the foregoing instrument, and he acknowledged that he executed the foregoing instrument on behalf of the City of New York as said Deputy Commissioner of General Services, Division of Real Property pursuant to the authority vested in him by resolution of the Board of Estimate, date and calendar number, set forth in the within instrument.

[Signature]

STATE OF NEW YORK, )  
COUNTY OF NEW YORK ) ss:

MARIA APONTE  
Commissioner of Deeds  
City of New York 20322  
Commission Expires 10/1/84

On this 9th day of JANUARY, 1983, before me personally came DAVID DINKINS with whom I am acquainted and known to me to be the City Clerk of the City of New York, being by me duly sworn, deposes and says; that he resides at 157-10 Riverside X Drive, NYC. ; that he is the City Clerk of The City of New York, the municipal corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation, that the seal affixed to said instrument is such corporate seal; that it was so affixed as provided by law; and that he signed his name thereto as City Clerk by like authority.

RAQUEL E. VIDAL  
Commissioner of Deeds  
City of New York - 150-4-1100  
Certificate Filed in New York Court  
Commission Expires October 1, 1984

[Signature]

BLOCK 2266 LOT 32  
COUNTY Kings

DEED

THE CITY OF NEW YORK

TO

KAREL C. SIMEK

Record and return to:

[Handwritten address]  
150 STAVE RHILOR  
NY, NY 10010

11893

[Handwritten signature]

1983 APR 20 AM 9 31

ESC. [Handwritten]  
SST # 550  
RPT # 5435

OFFICE OF CITY REGISTER  
Kings County  
RECORDED  
Witness my hand  
and official seal

[Signature]  
CITY REGISTER

RECEIVED  
REAL ESTATE  
APR 20 1983  
TRANSFER TAX  
KINGS COUNTY

# APPENDIX C

## SANBORN MAPS



**78 Throop Avenue**

78 Throop Avenue

Brooklyn, NY 11206

Inquiry Number: 3313729.3

May 01, 2012

## Certified Sanborn® Map Report

# Certified Sanborn® Map Report

5/01/12

**Site Name:**

78 Throop Avenue  
78 Throop Avenue  
Brooklyn, NY 11206

**Client Name:**

Env. Business Consultants  
1808 Middle Country Road  
Ridge, NY 11961



EDR Inquiry # 3313729.3

Contact: Dominick Mosca

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Env. Business Consultants were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

## Certified Sanborn Results:

**Site Name:** 78 Throop Avenue  
**Address:** 78 Throop Avenue  
**City, State, Zip:** Brooklyn, NY 11206  
**Cross Street:**  
**P.O. #** NA  
**Project:** TRG1202 - 78 Throop Avenue  
**Certification #** B041-4C17-A691



Sanborn® Library search results  
Certification # B041-4C17-A691

**Maps Provided:**

2007	2001	1989	1980	1935
2006	1996	1987	1979	1918
2005	1995	1986	1977	1904
2004	1993	1984	1965	1887
2003	1992	1982	1950	
2002	1991	1981	1947	

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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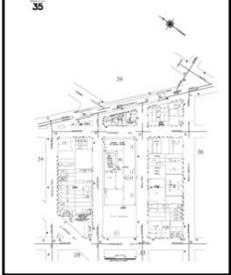
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## Sanborn Sheet Thumbnails

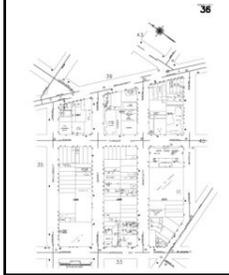
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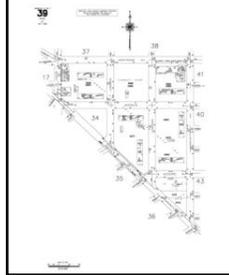
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Volume 3, Sheet 35

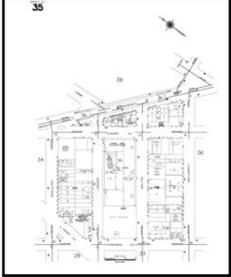


Volume 3, Sheet 36

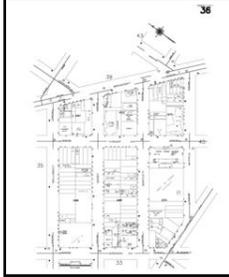


Volume 3, Sheet 39

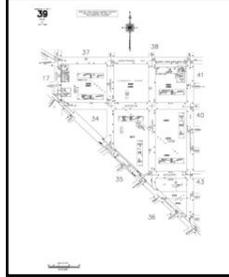
### 2006 Source Sheets



Volume 3, Sheet 35

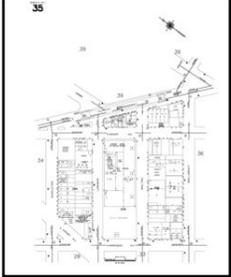


Volume 3, Sheet 36

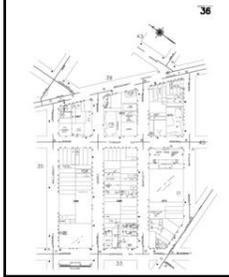


Volume 3, Sheet 39

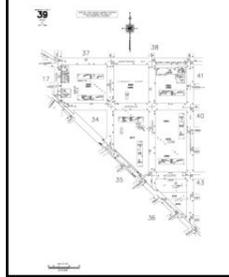
### 2005 Source Sheets



Volume 3, Sheet 35

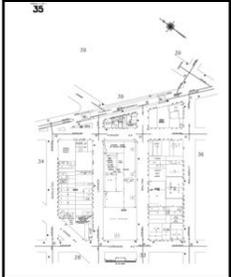


Volume 3, Sheet 36

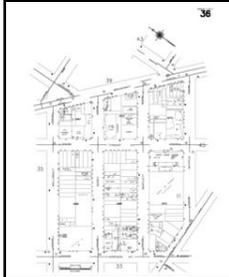


Volume 3, Sheet 39

### 2004 Source Sheets



Volume 3, Sheet 35

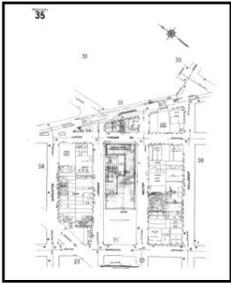


Volume 3, Sheet 36

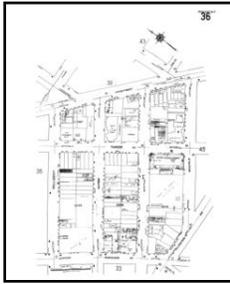


Volume 3, Sheet 39

**2003 Source Sheets**



Volume 3, Sheet 35

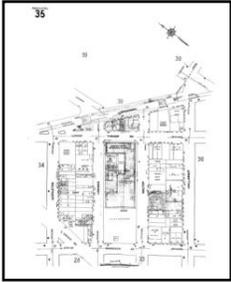


Volume 3, Sheet 36

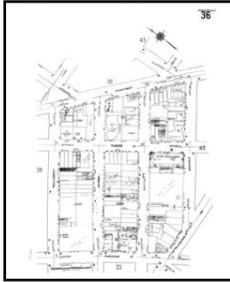


Volume 3, Sheet 39

**2002 Source Sheets**



Volume 3, Sheet 35

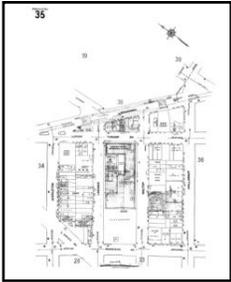


Volume 3, Sheet 36

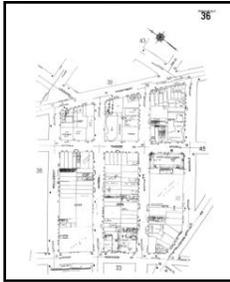


Volume 3, Sheet 39

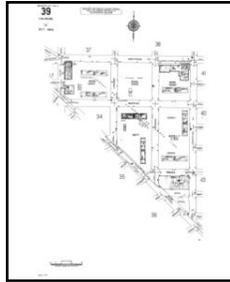
**2001 Source Sheets**



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Volume 3, Sheet 36



Volume 3, Sheet 39

**1996 Source Sheets**



Volume 3, Sheet 35

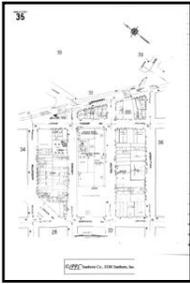


Volume 3, Sheet 36

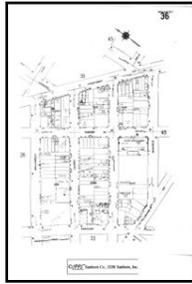


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**1995 Source Sheets**



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Volume 3, Sheet 36

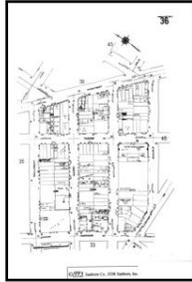


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**1993 Source Sheets**



Volume 3, Sheet 35

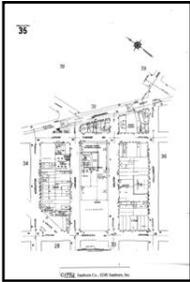


Volume 3, Sheet 36

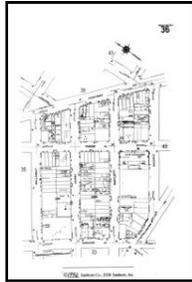


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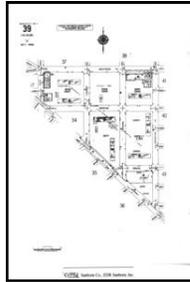
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Volume 3, Sheet 35



Volume 3, Sheet 36



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**1991 Source Sheets**



Volume 3, Sheet 35

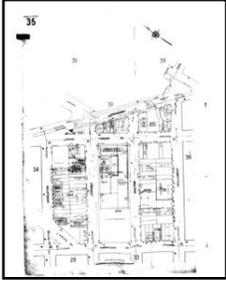


Volume 3, Sheet 36

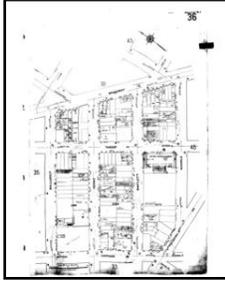


Volume 3, Sheet 39

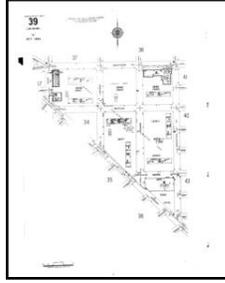
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Volume 3, Sheet 35

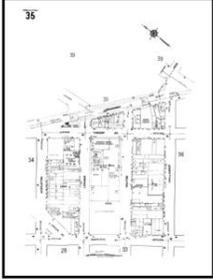


Volume 3, Sheet 36



Volume 3, Sheet 39

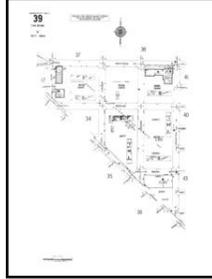
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Volume 3, Sheet 35



Volume 3, Sheet 36



Volume 3, Sheet 39

**1986 Source Sheets**



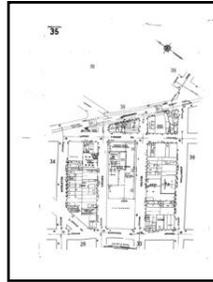
Volume 3, Sheet 35



Volume 3, Sheet 36



Volume 3, Sheet 39

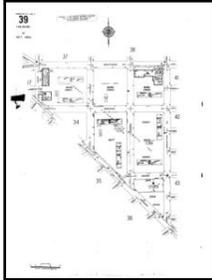


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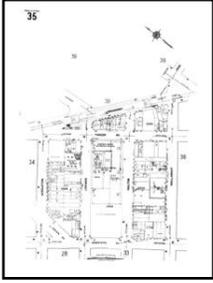


Volume 3, Sheet 36



Volume 3, Sheet 39

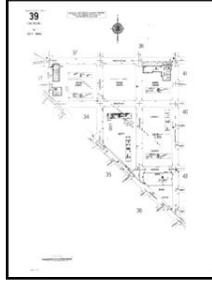
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Volume 3, Sheet 35



Volume 3, Sheet 36



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**1981 Source Sheets**



Volume 3, Sheet 35

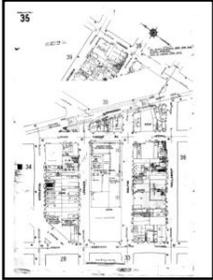


Volume 3, Sheet 36



Volume 3, Sheet 39

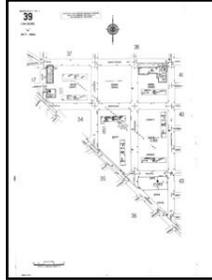
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Volume 3, Sheet 35



Volume 3, Sheet 36

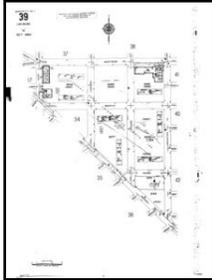


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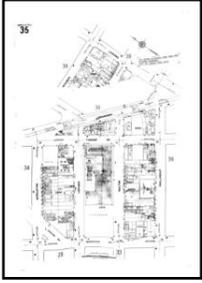


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**1977 Source Sheets**



Volume 3, Sheet 35

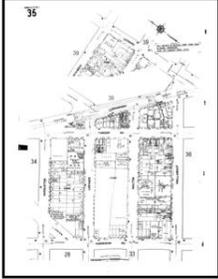


Volume 3, Sheet 36



Volume 3, Sheet 39

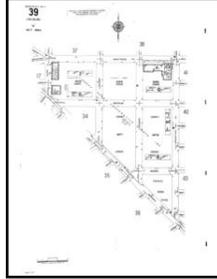
**1965 Source Sheets**



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**1950 Source Sheets**



Volume 3, Sheet 35



Volume 3, Sheet 36

**1947 Source Sheets**



Volume 3, Sheet 35



Volume 3, Sheet 36

**1935 Source Sheets**



Volume 3, Sheet 35

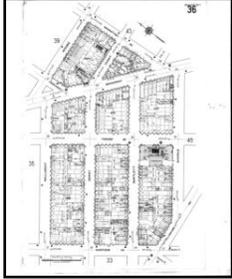


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**1918 Source Sheets**



Volume 3, Sheet 35



Volume 3, Sheet 36

**1904 Source Sheets**



Volume 3, Sheet 35



Volume 3, Sheet 36

**1887 Source Sheets**



Volume 3, Sheet 82



Volume 3, Sheet 82



Volume 3, Sheet 83

# 2007 Certified Sanborn Map



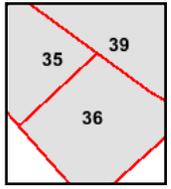
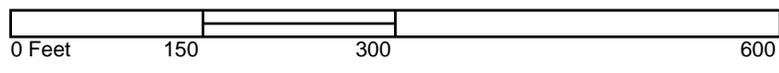
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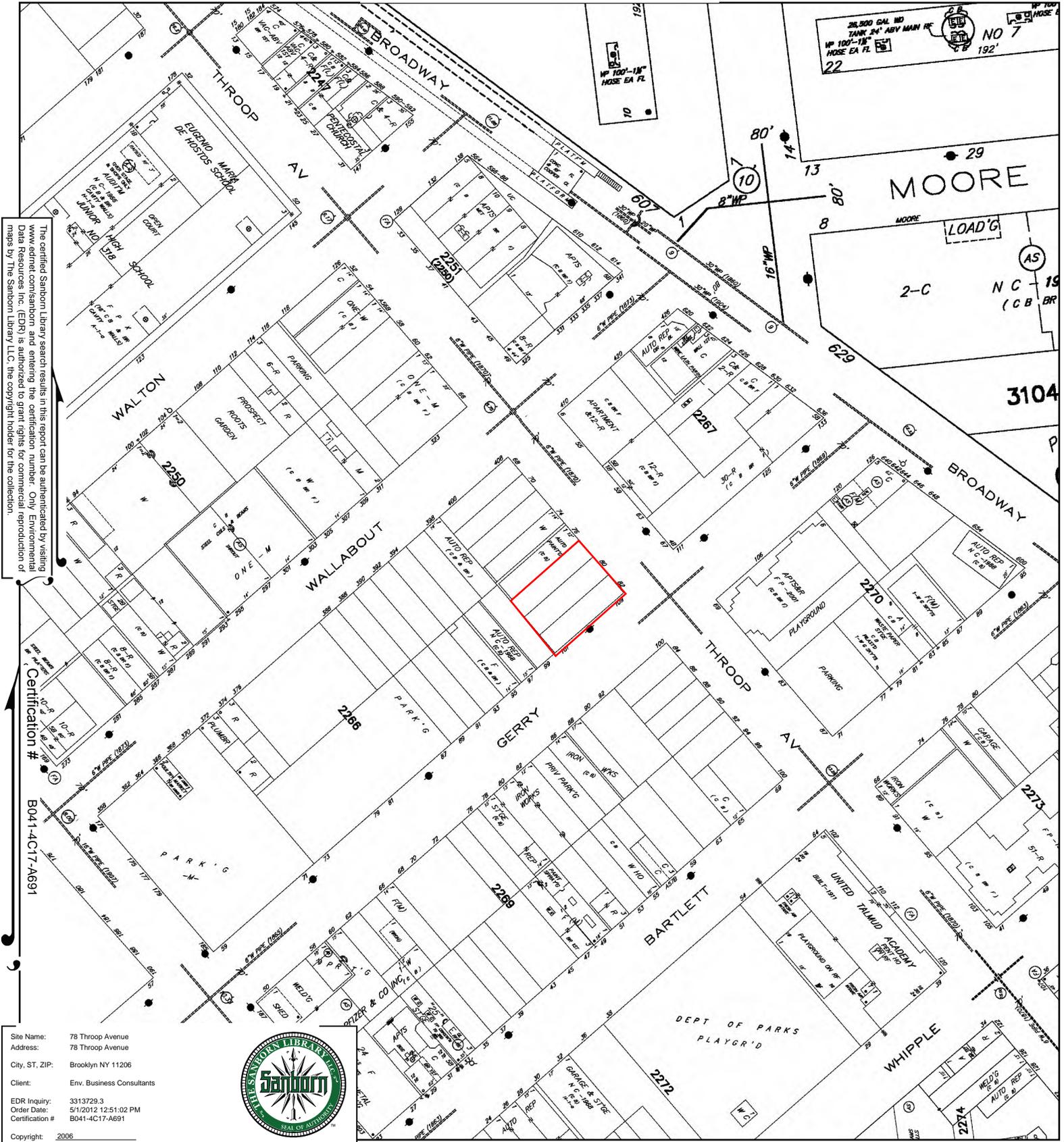
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 Volume 3, Sheet 39



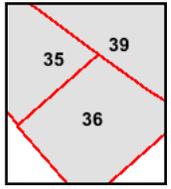
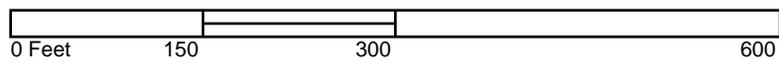
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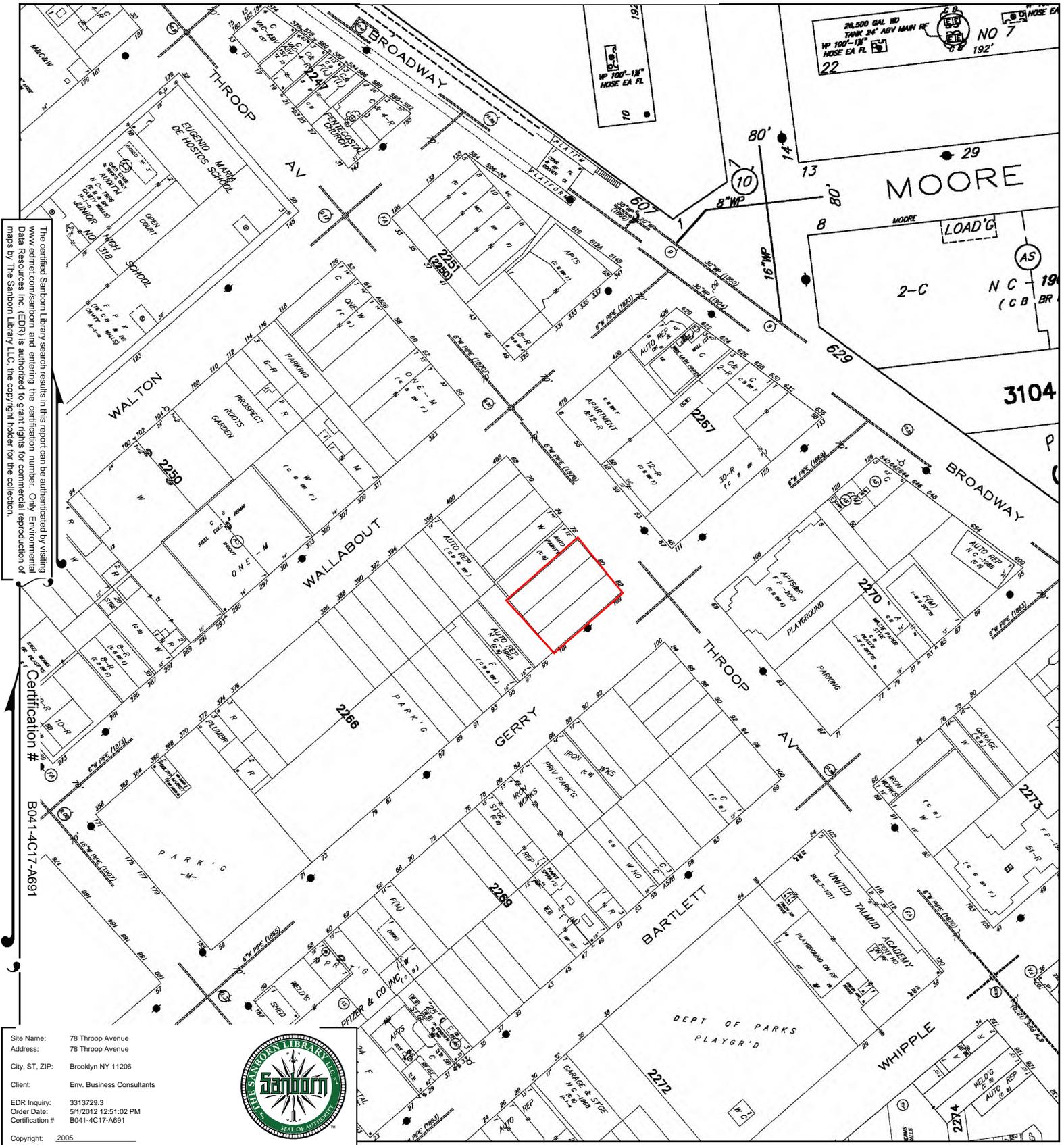
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# 2005 Certified Sanborn Map



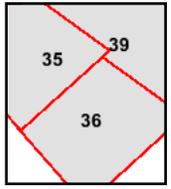
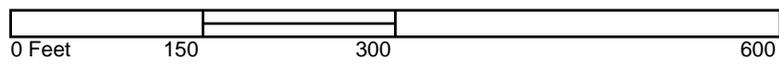
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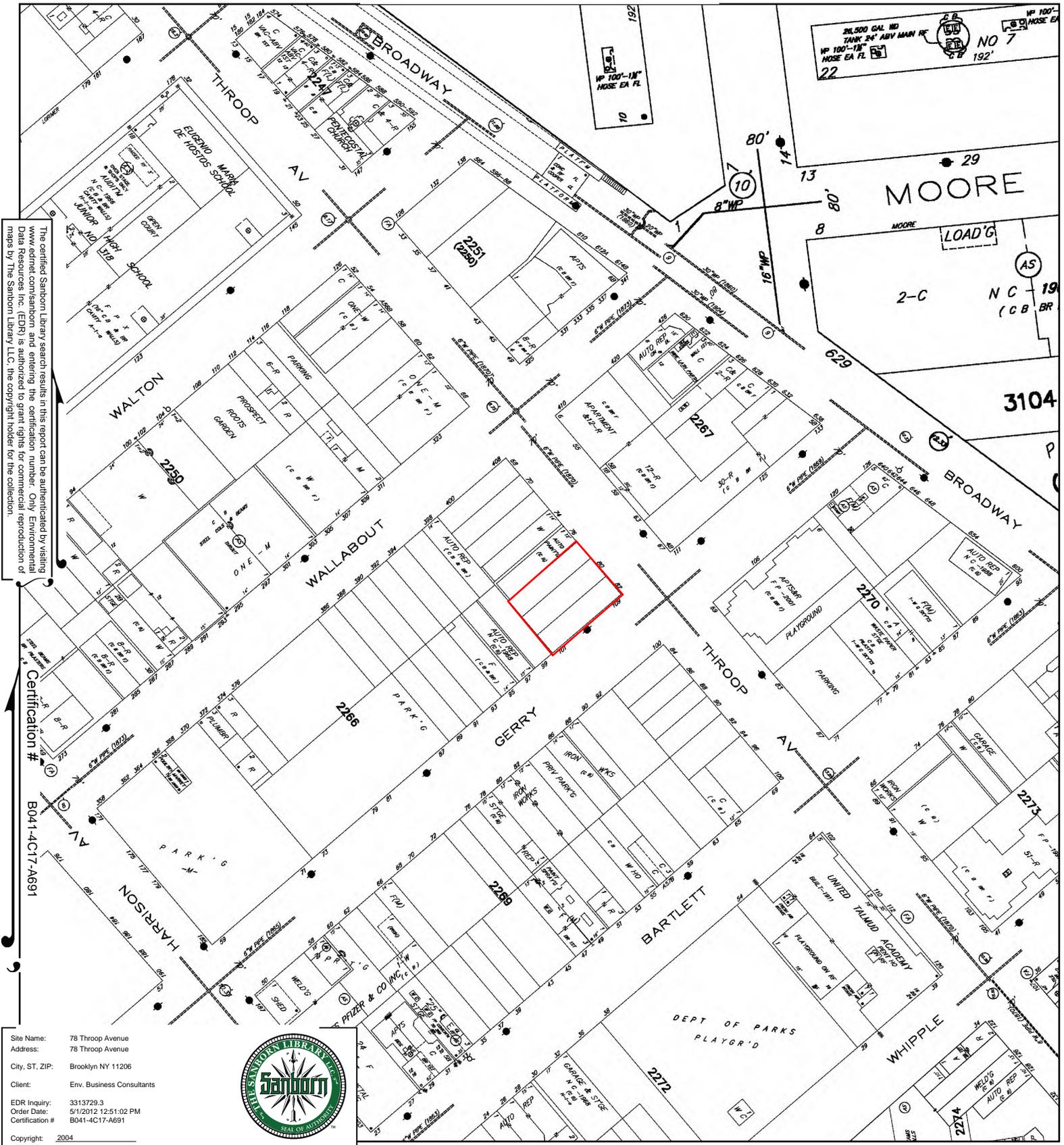
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# 2004 Certified Sanborn Map



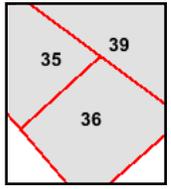
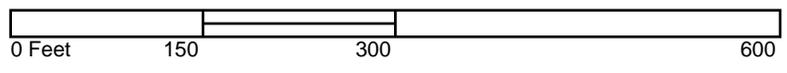
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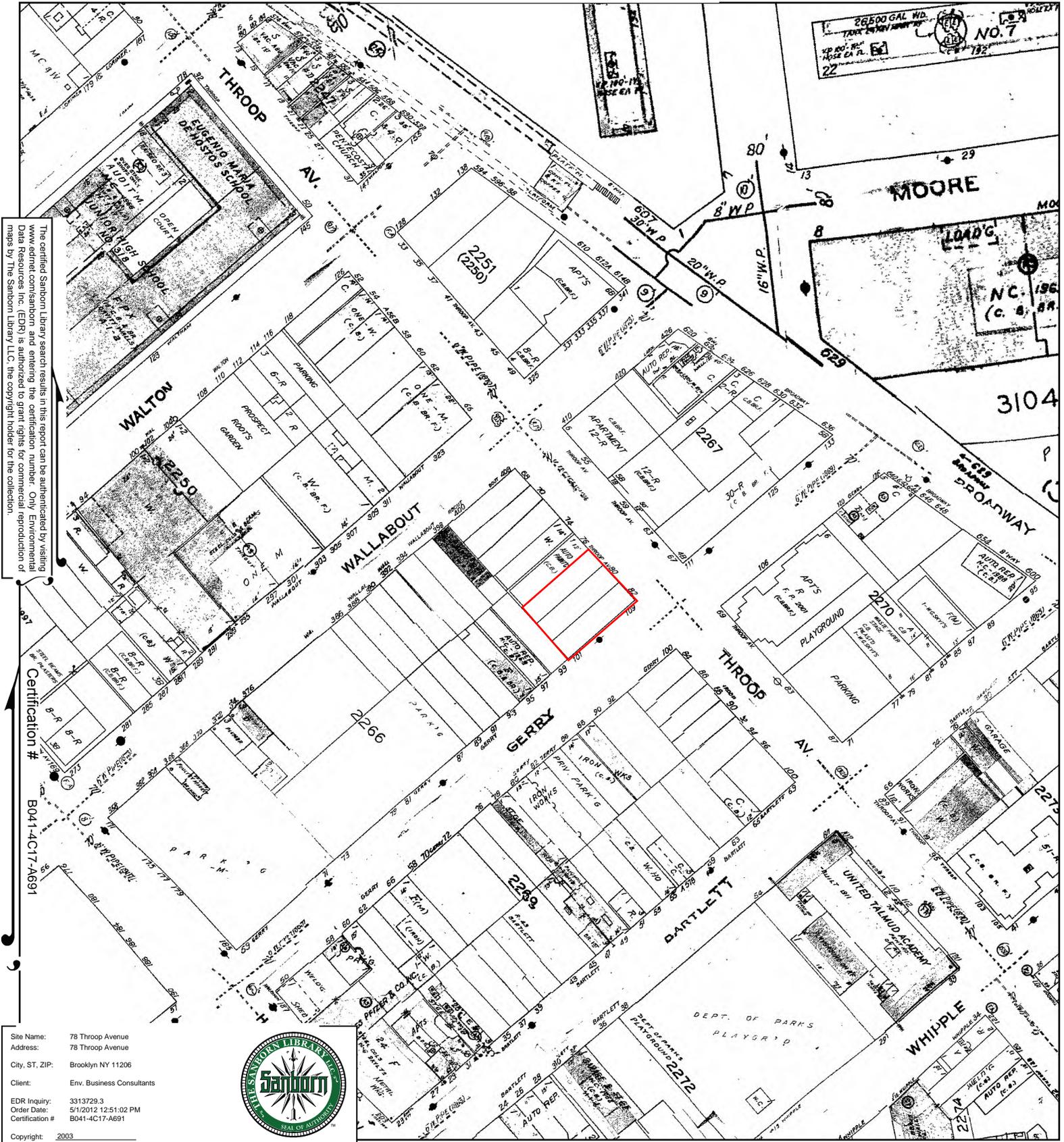


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# 2003 Certified Sanborn Map



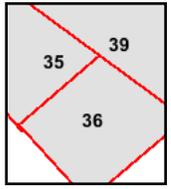
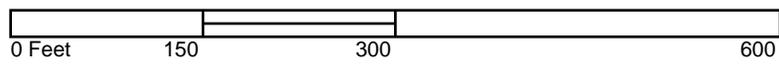
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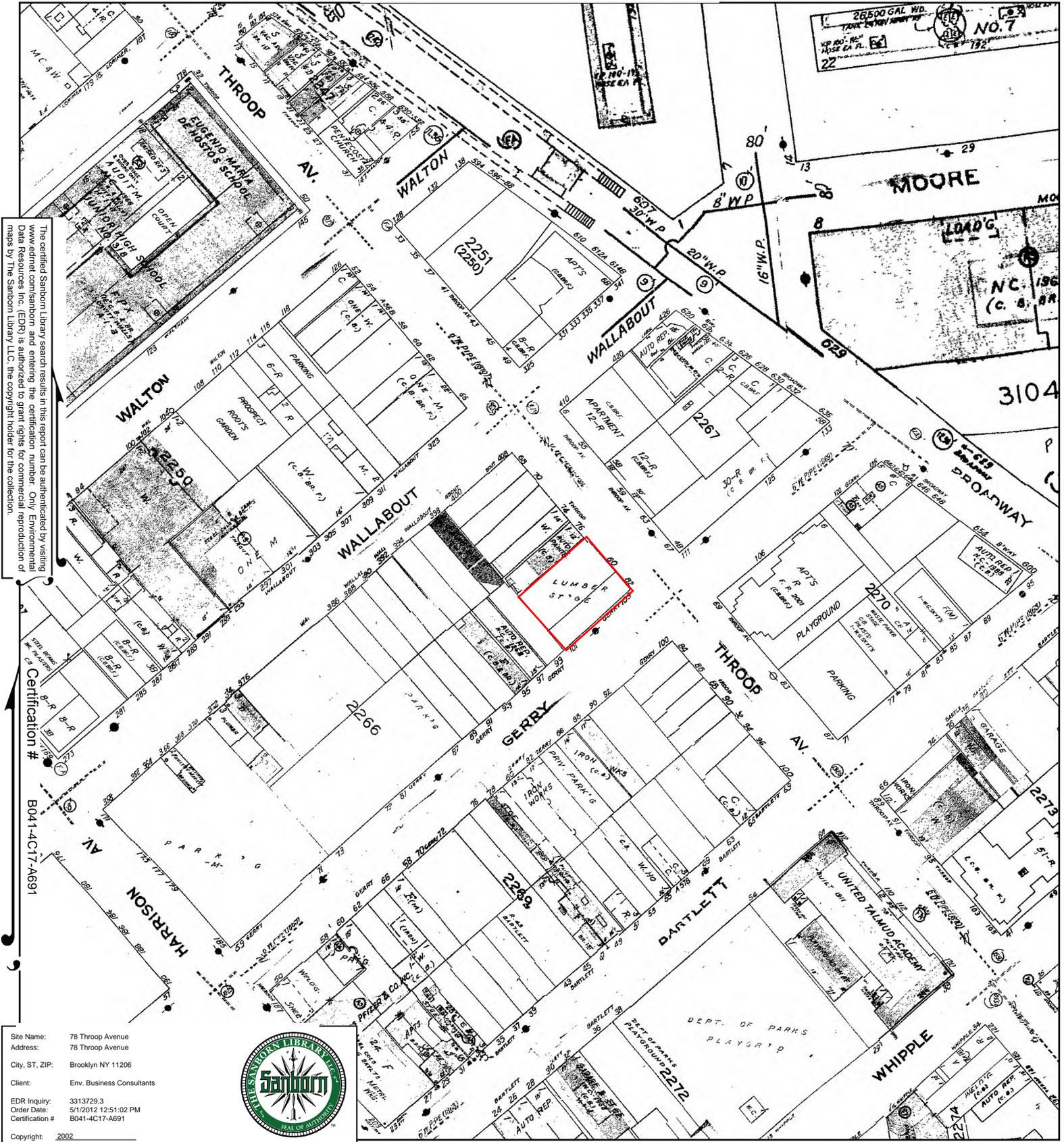
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# 2002 Certified Sanborn Map



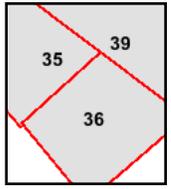
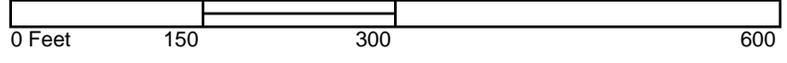
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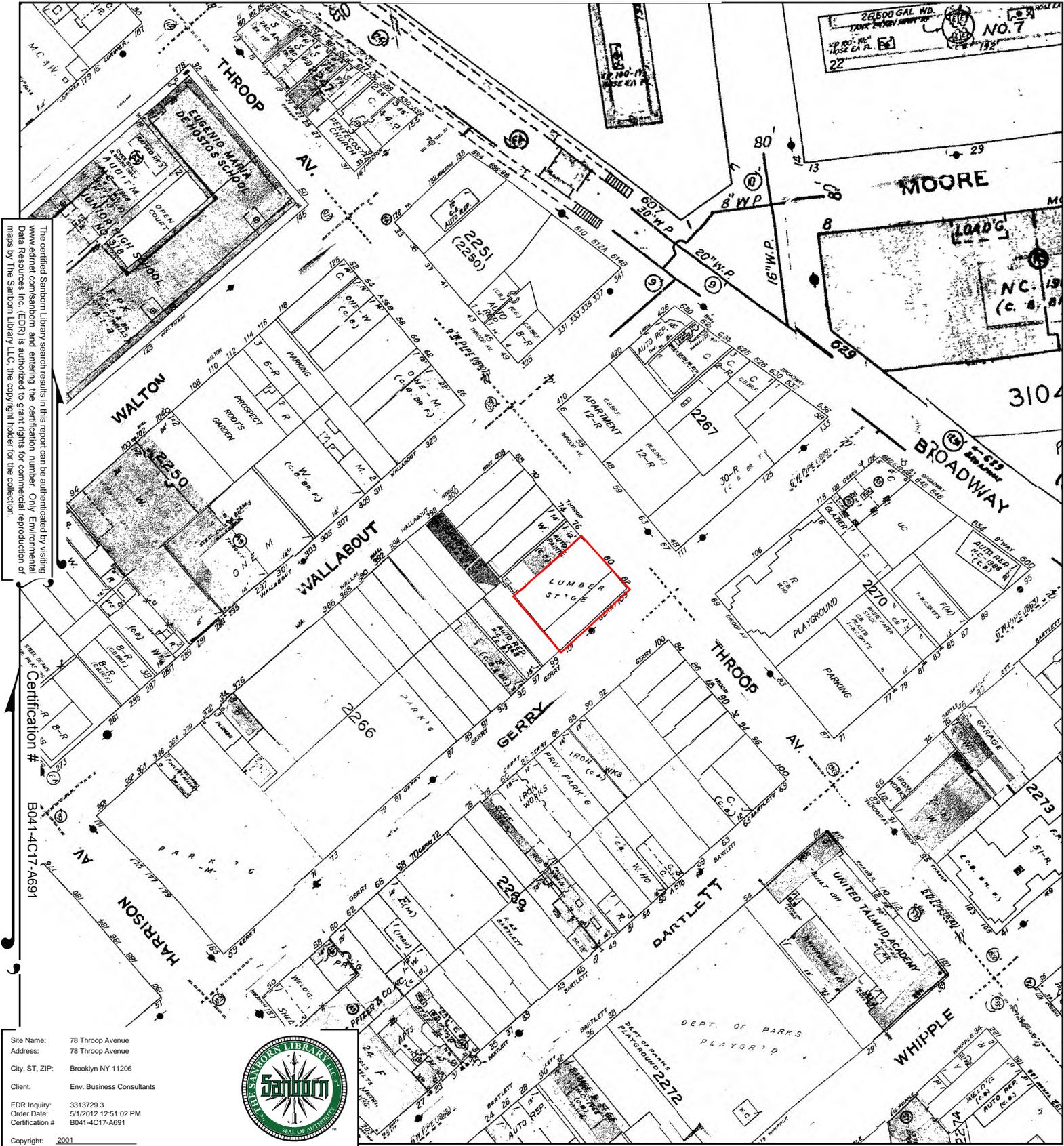
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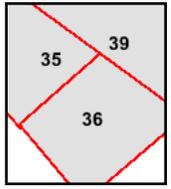
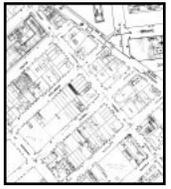
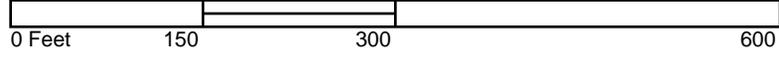
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# 1996 Certified Sanborn Map



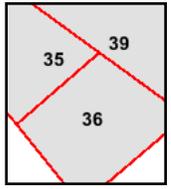
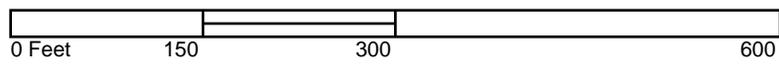
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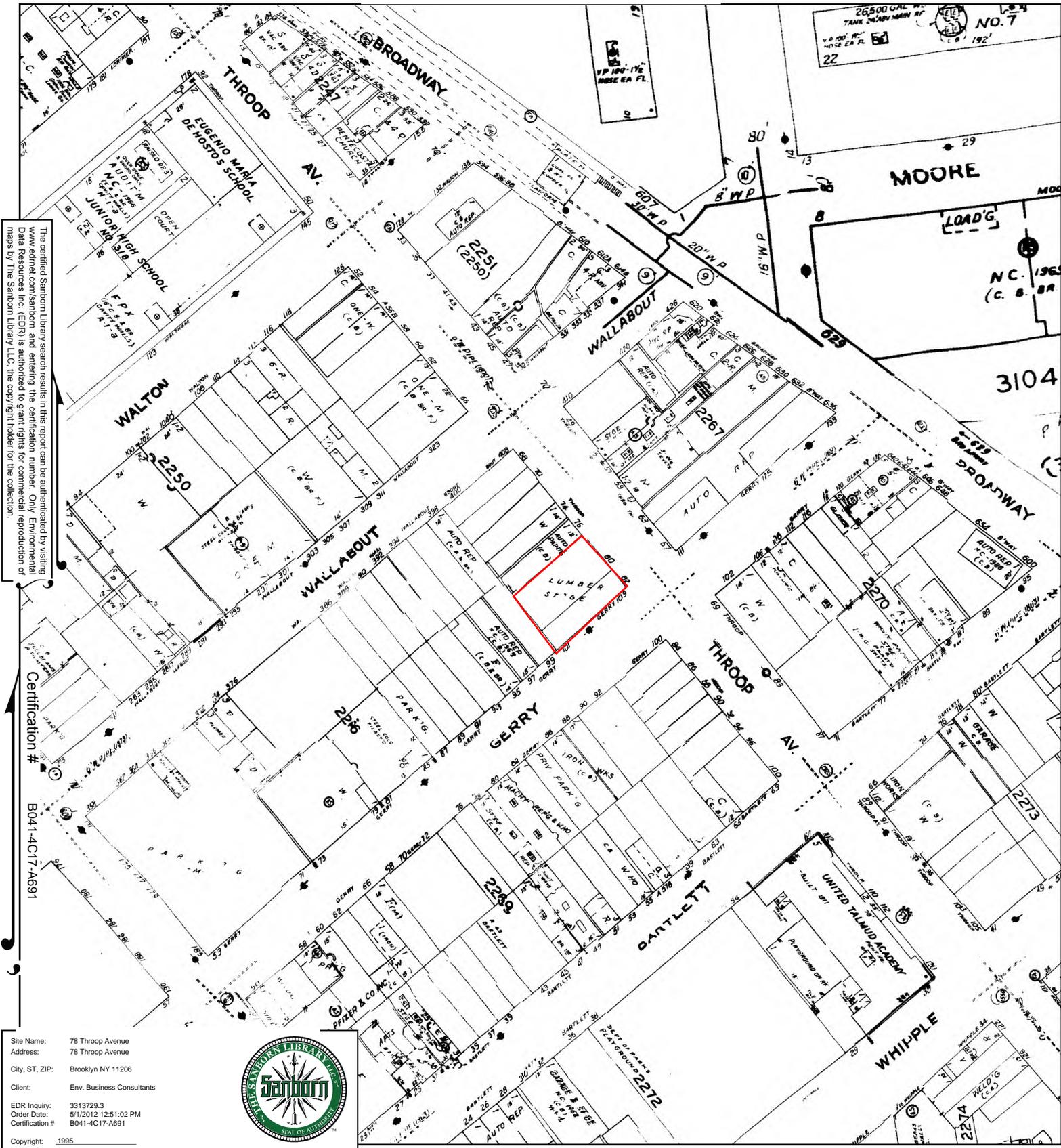
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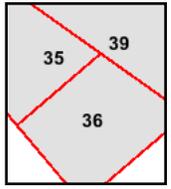
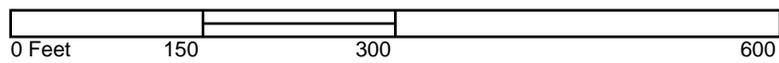
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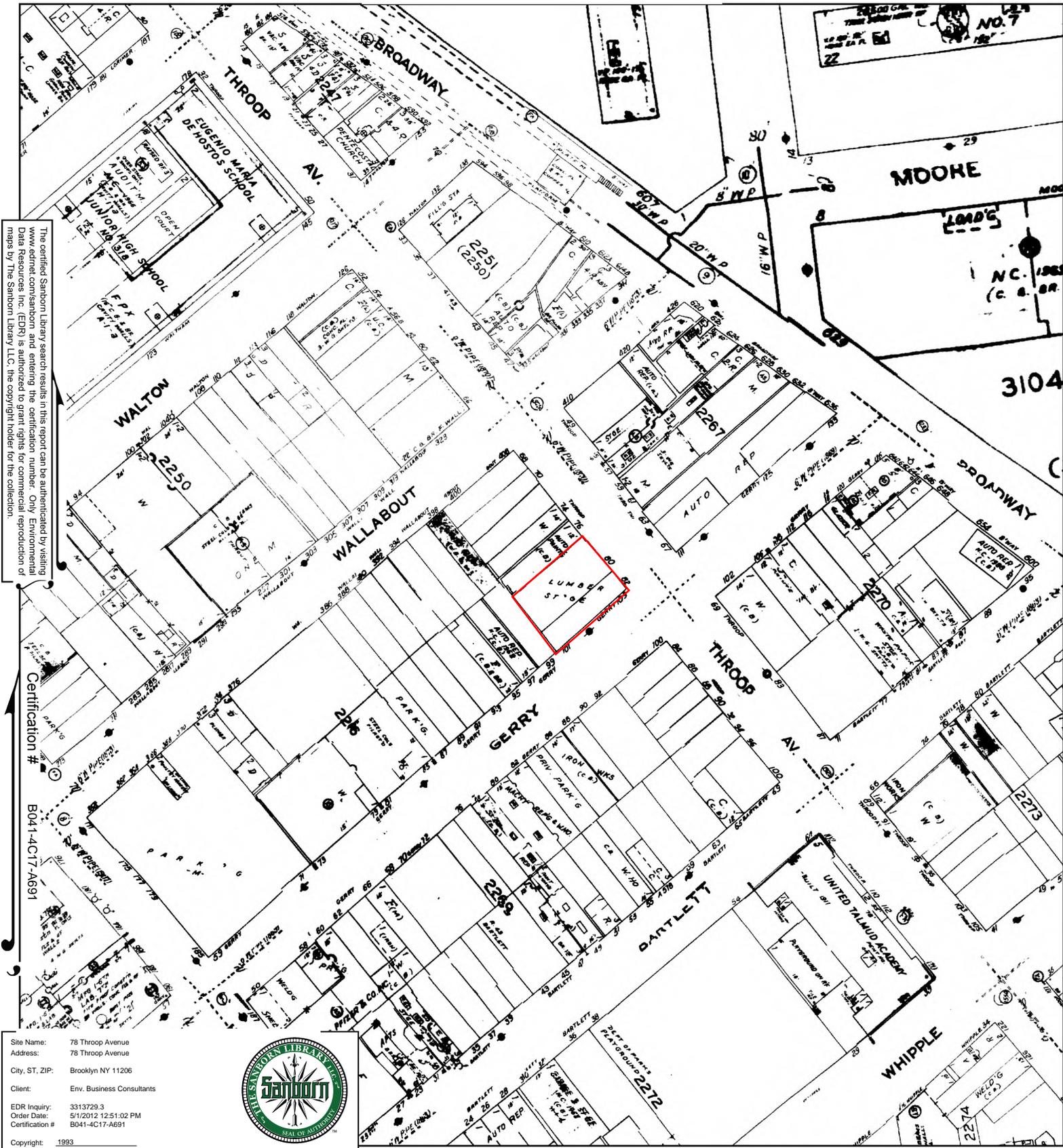
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# 1993 Certified Sanborn Map



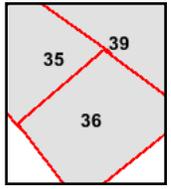
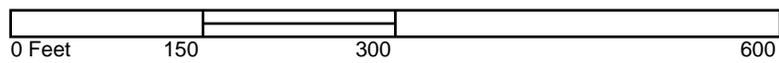
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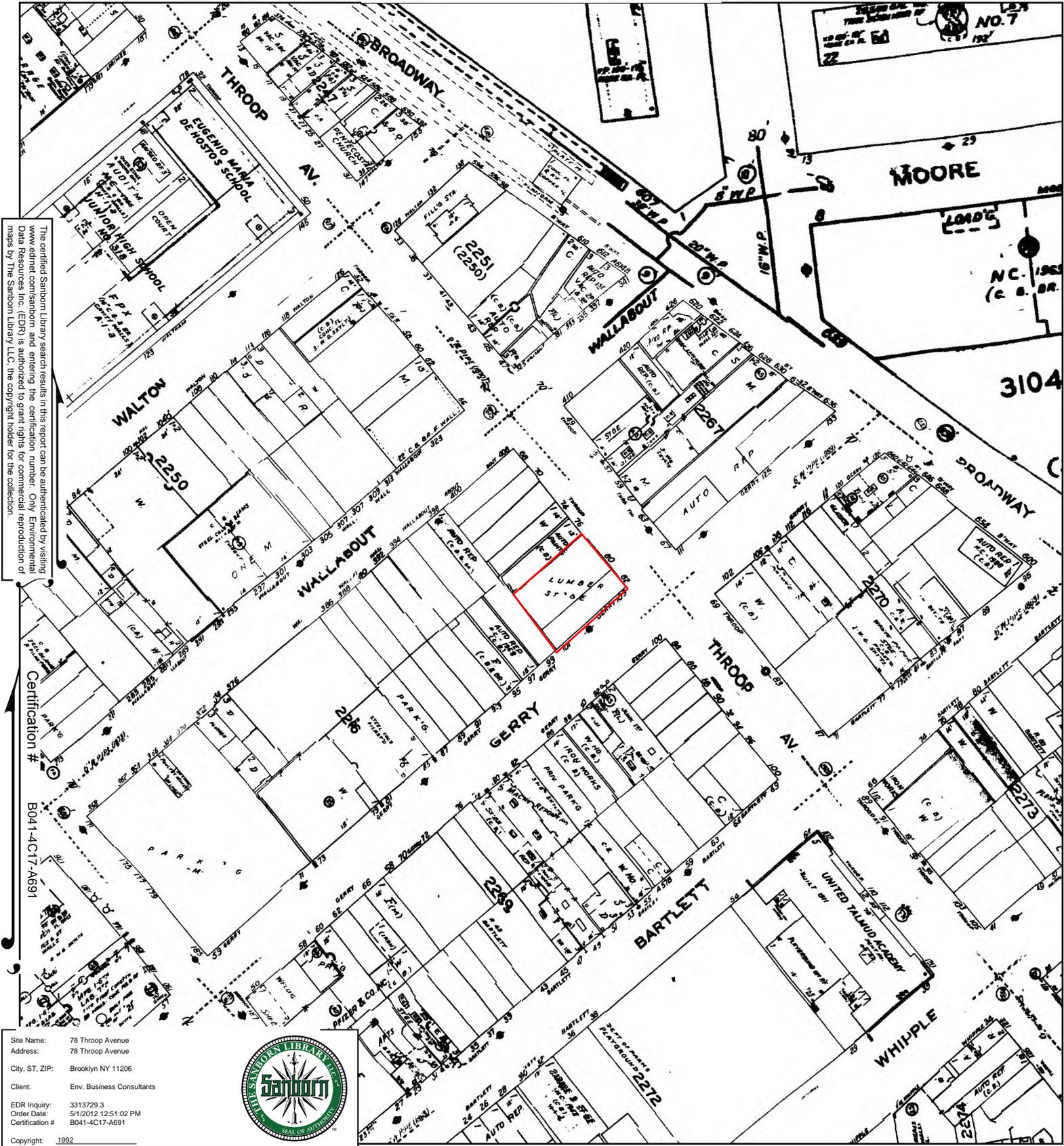
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 Volume 3, Sheet 39



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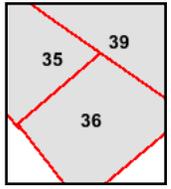
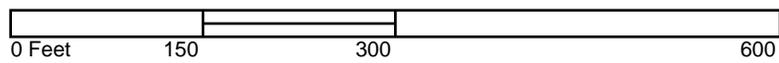
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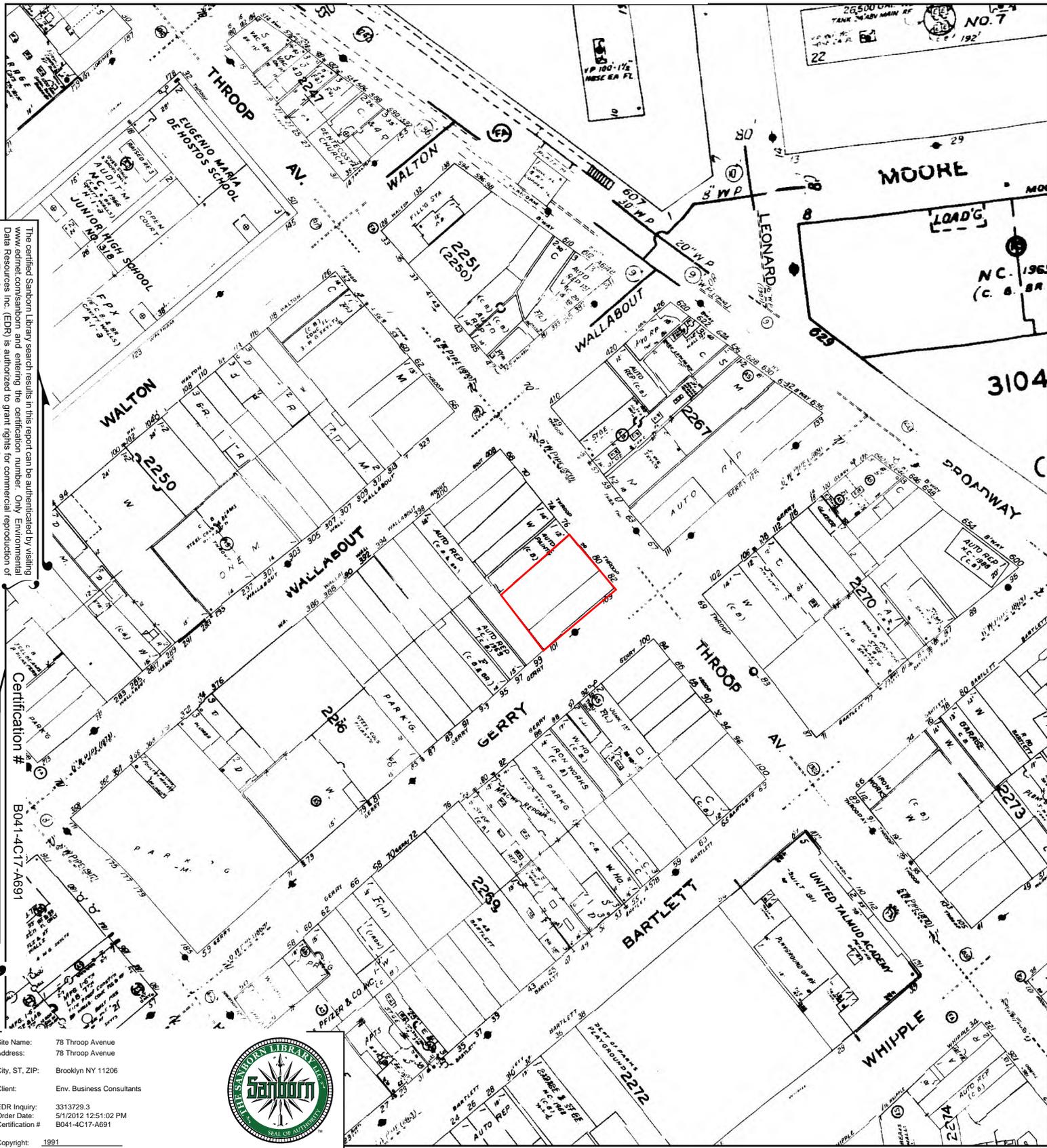
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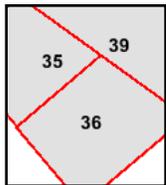
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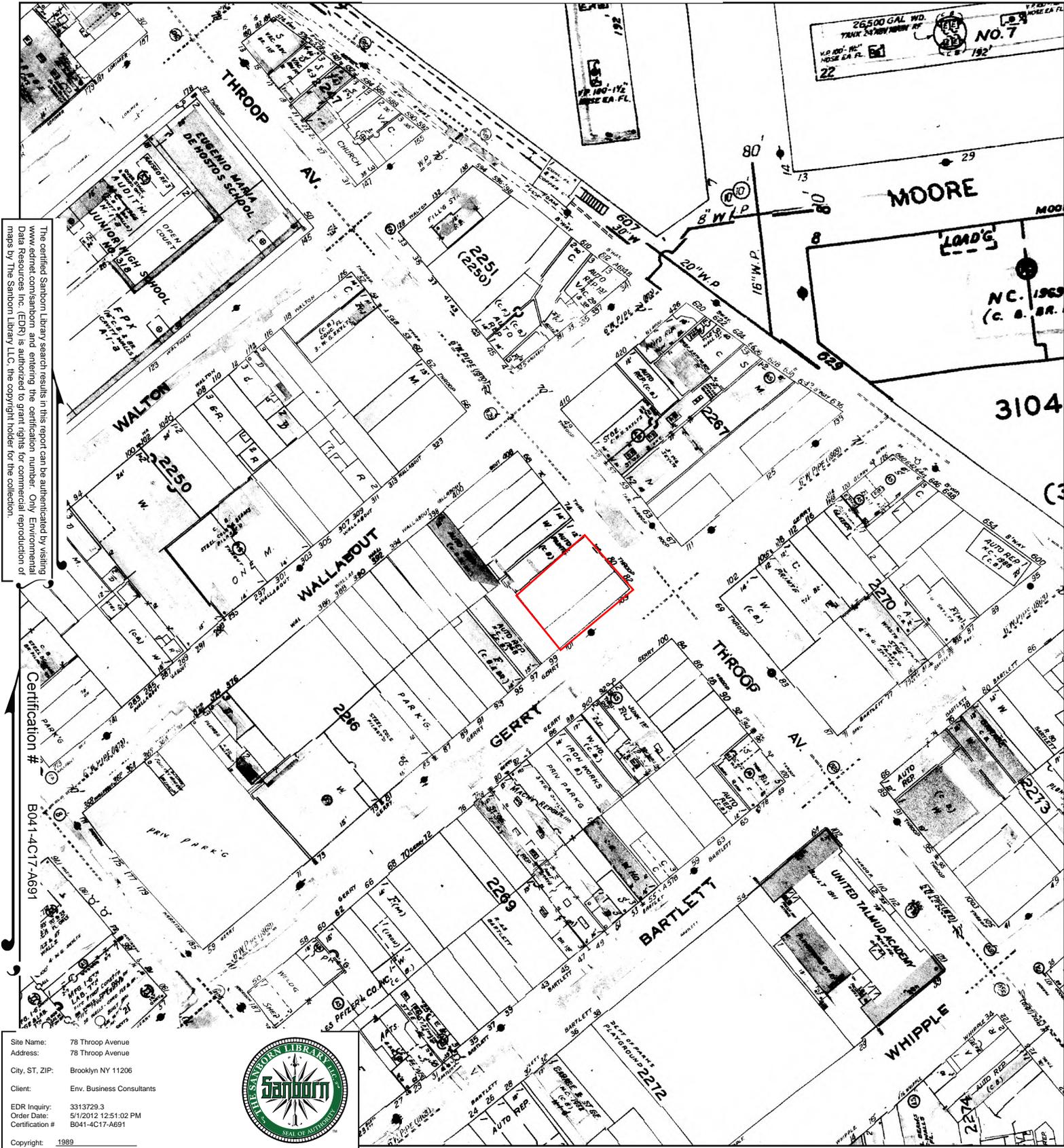
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# 1989 Certified Sanborn Map



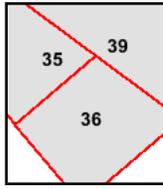
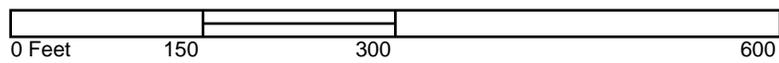
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 Certification #: B041-4C17-A691  
 Copyright: 1989



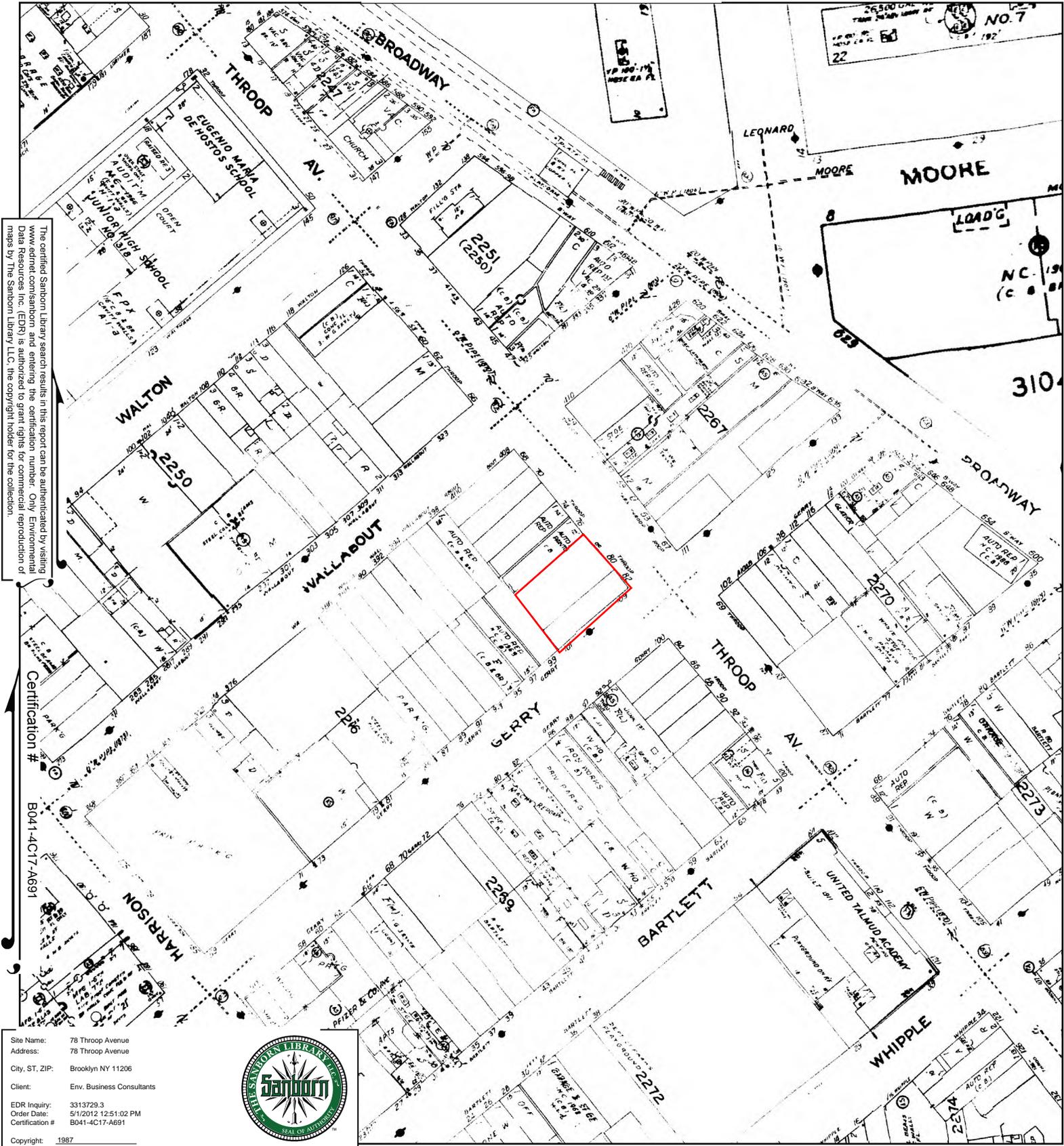
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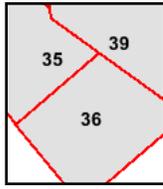
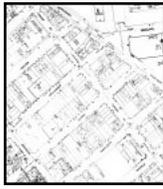
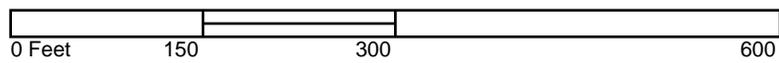
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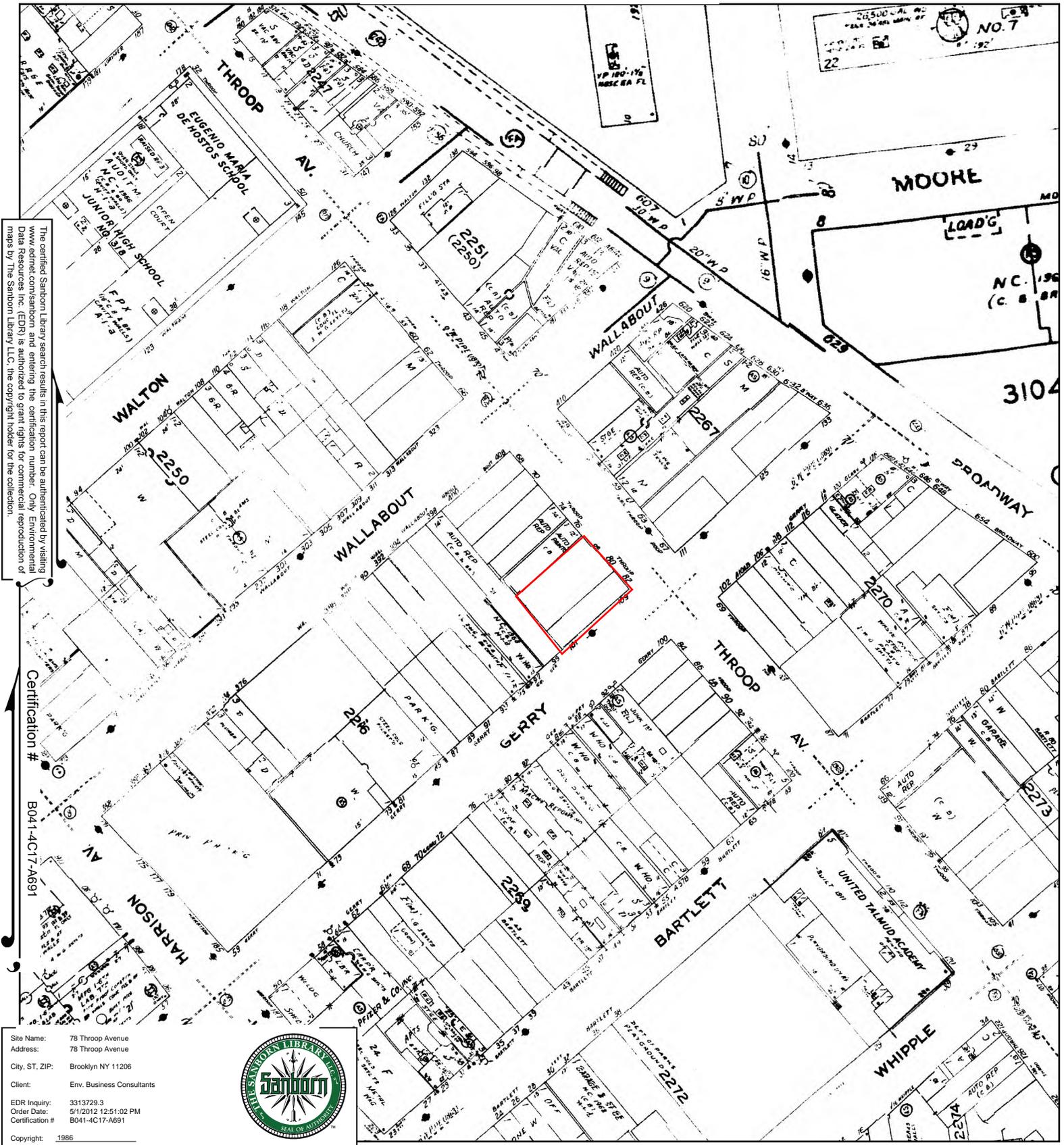
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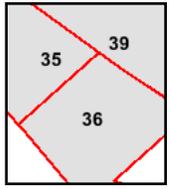
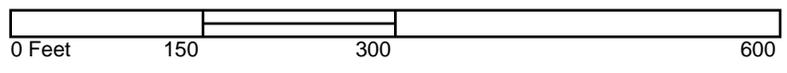
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 Copyright: 1986



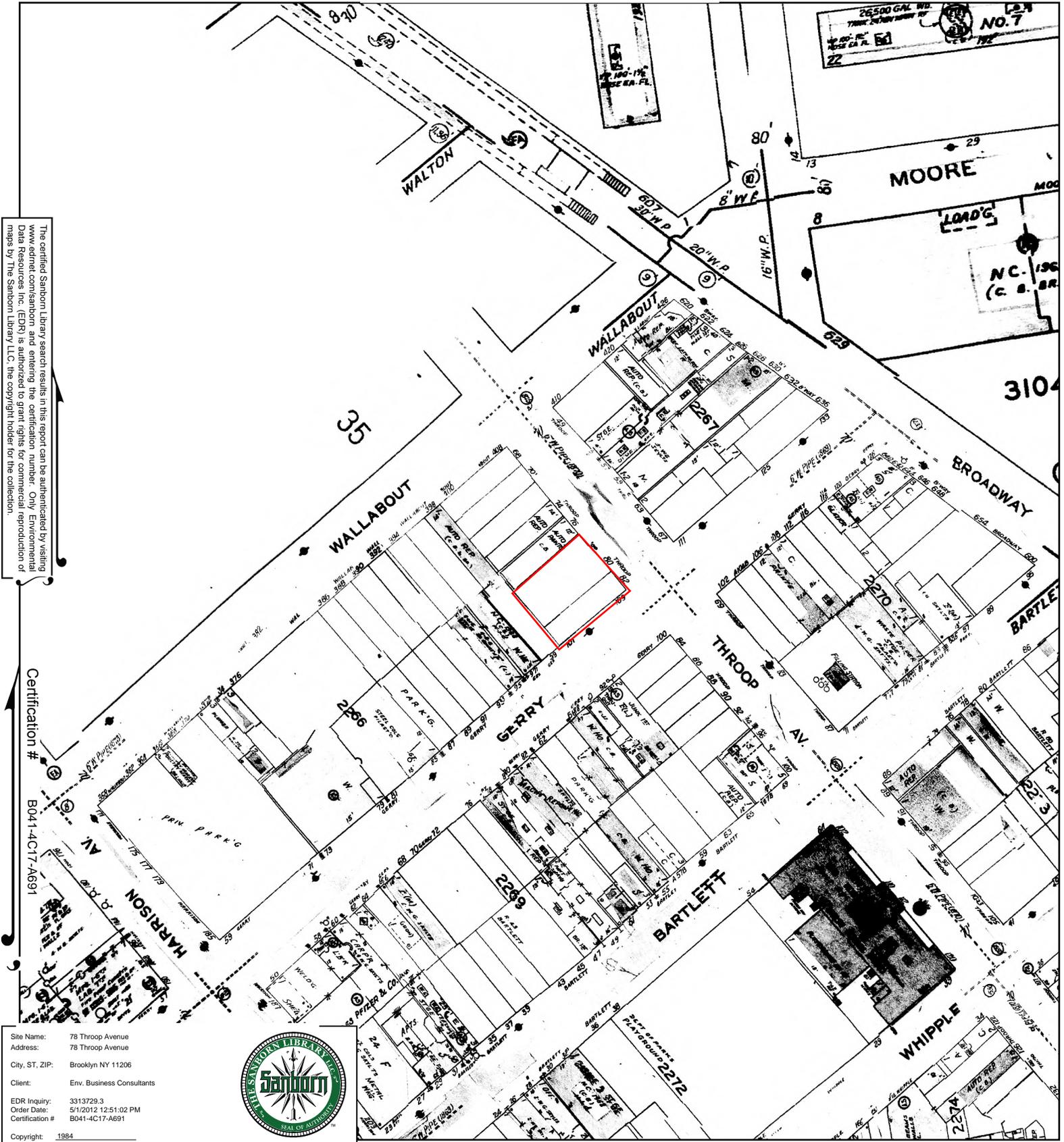
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- Volume 3, Sheet 36
- Volume 3, Sheet 39
- Volume 2, Sheet 35



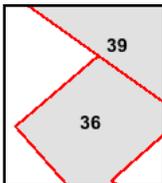
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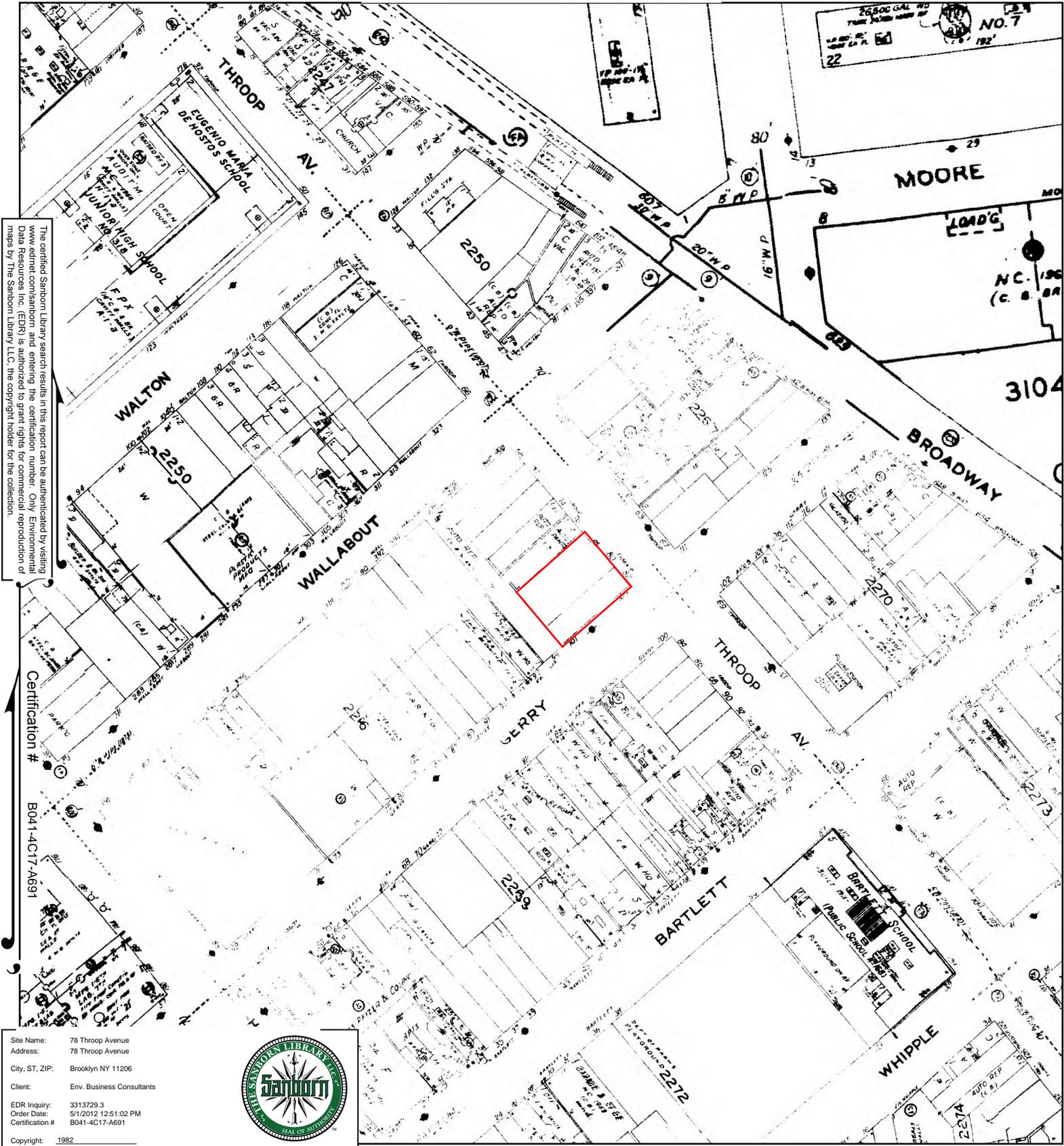
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# 1982 Certified Sanborn Map



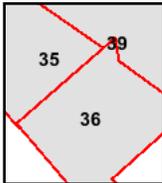
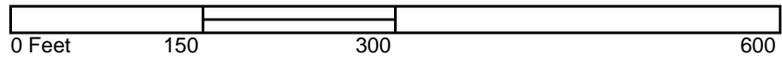
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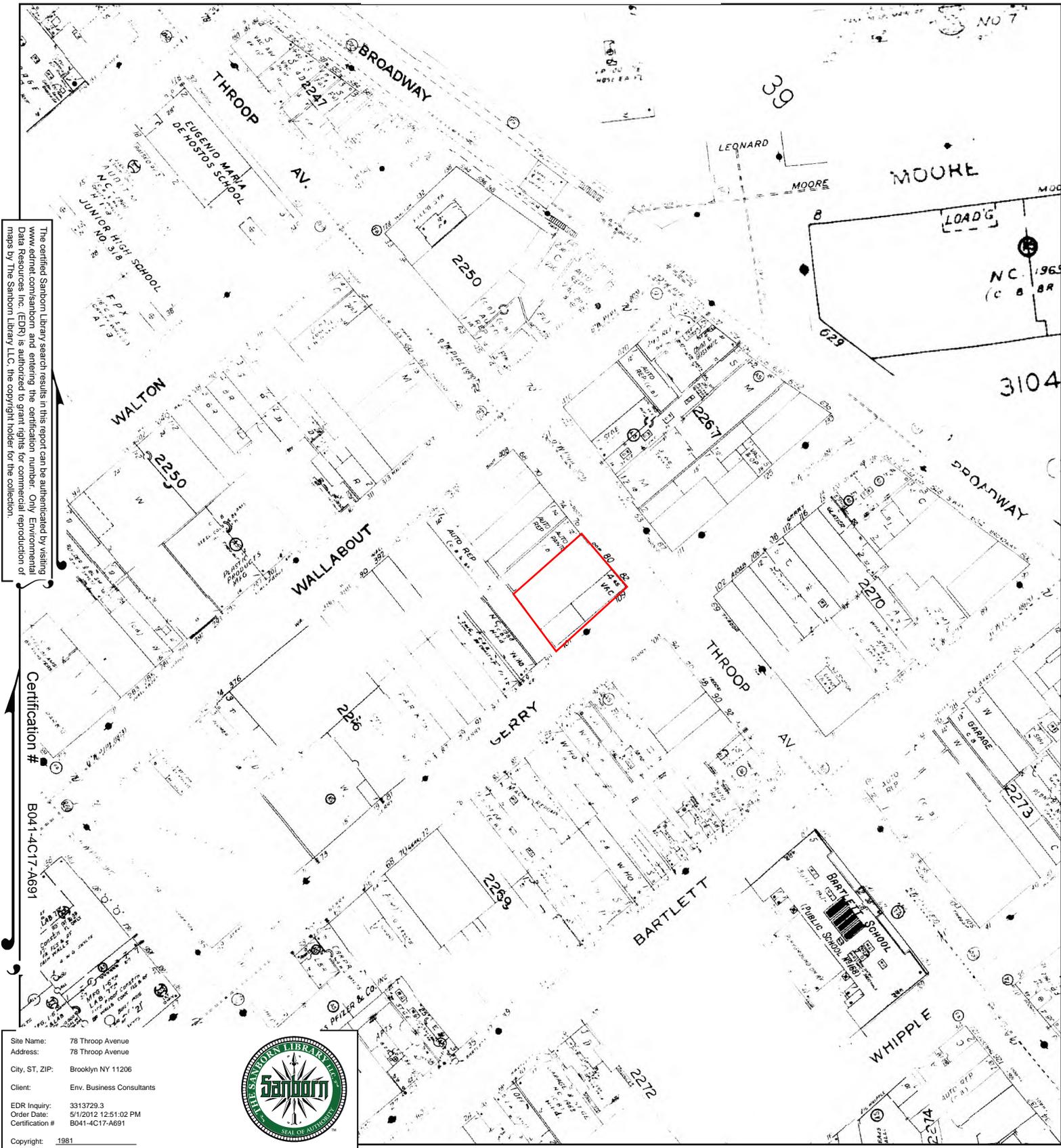
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# 1981 Certified Sanborn Map



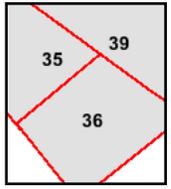
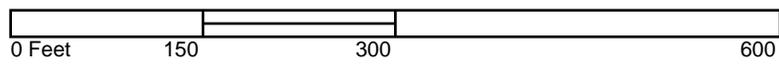
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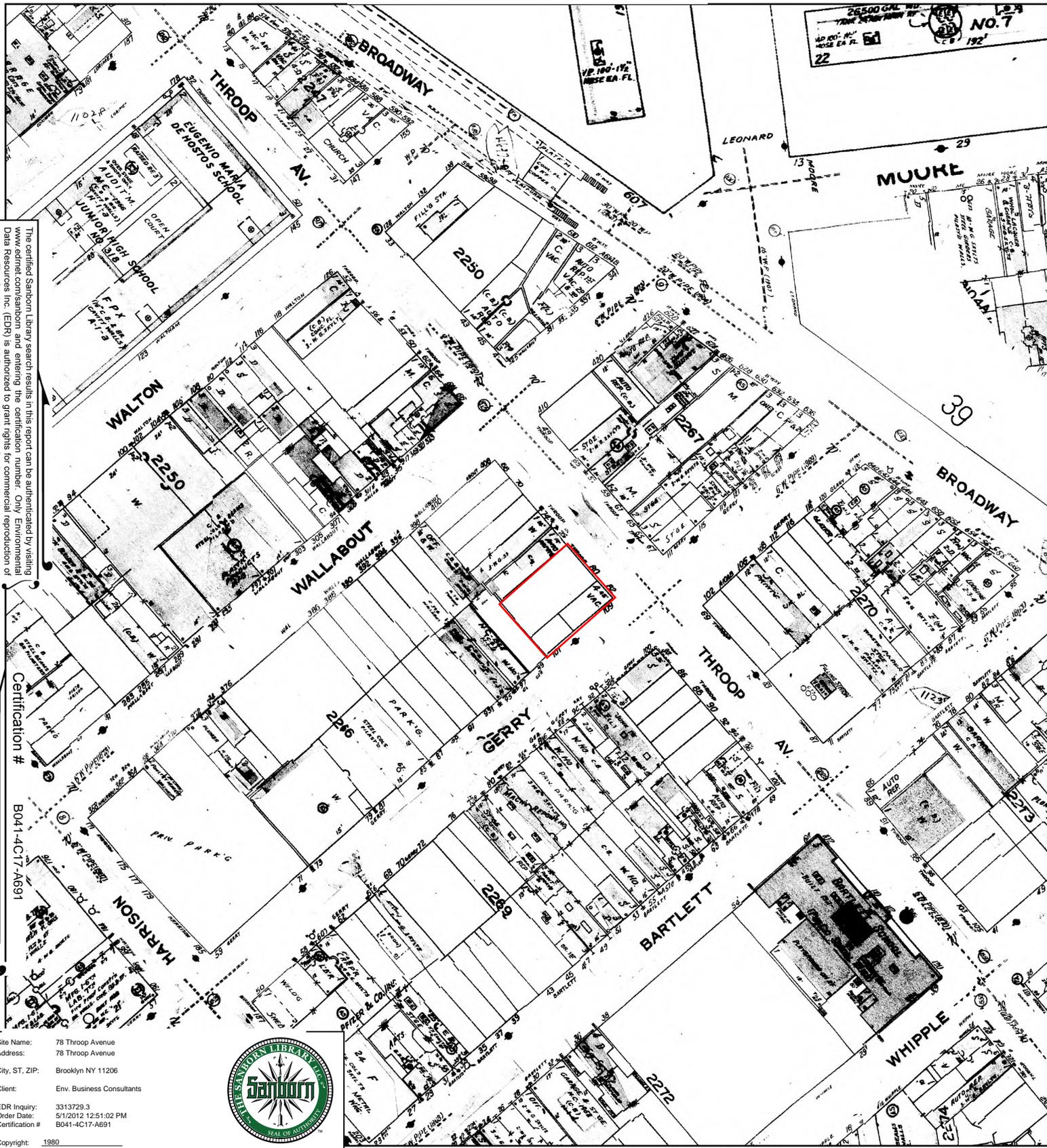
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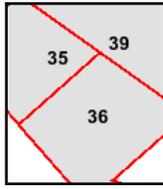
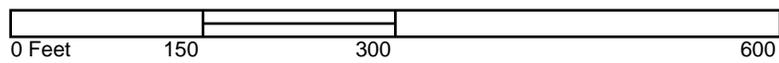
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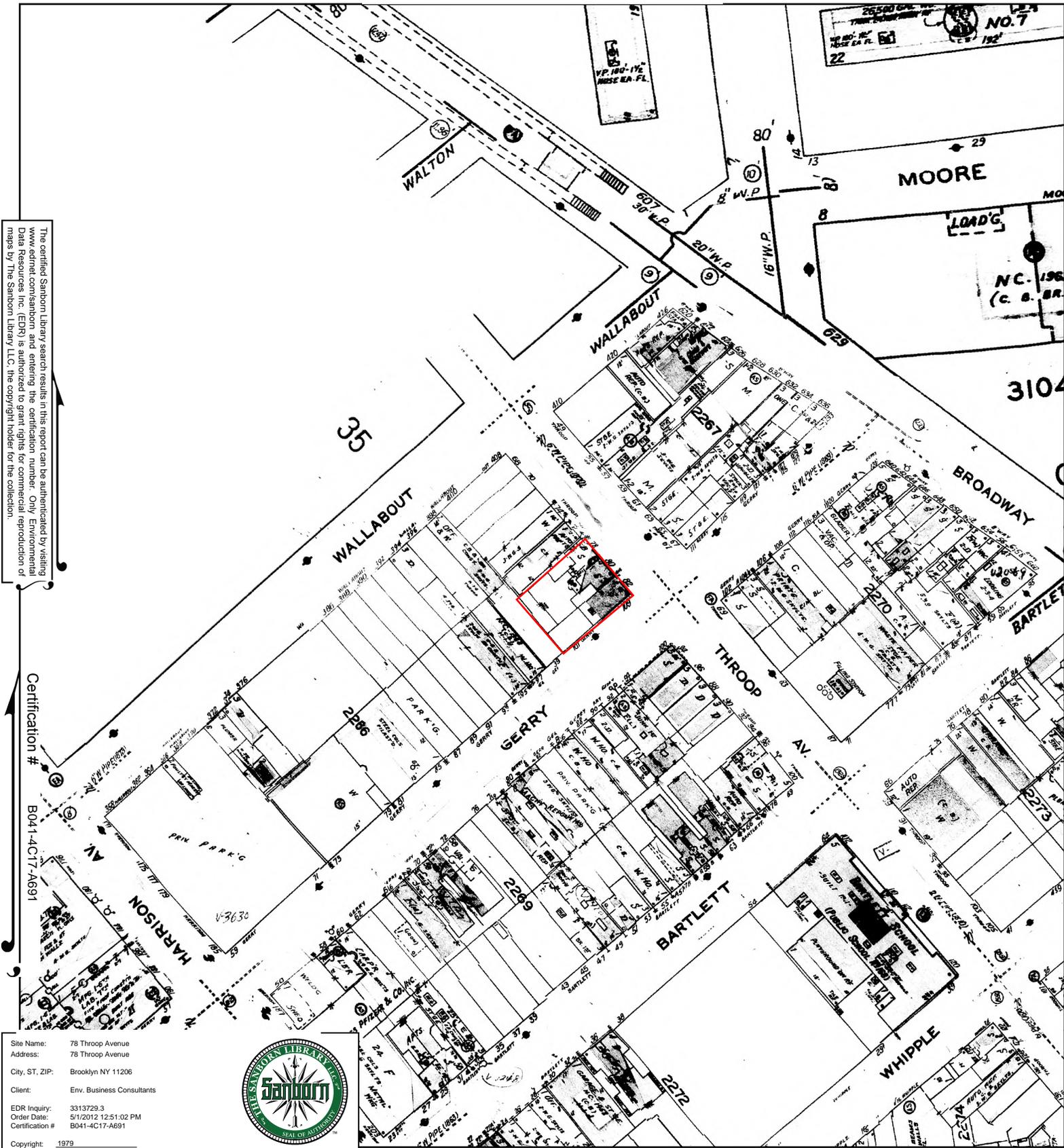
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# 1979 Certified Sanborn Map



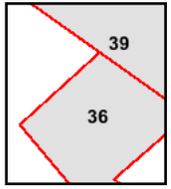
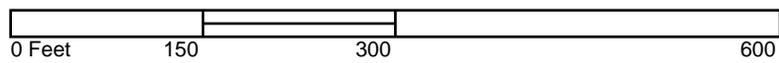
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 Copyright: 1979



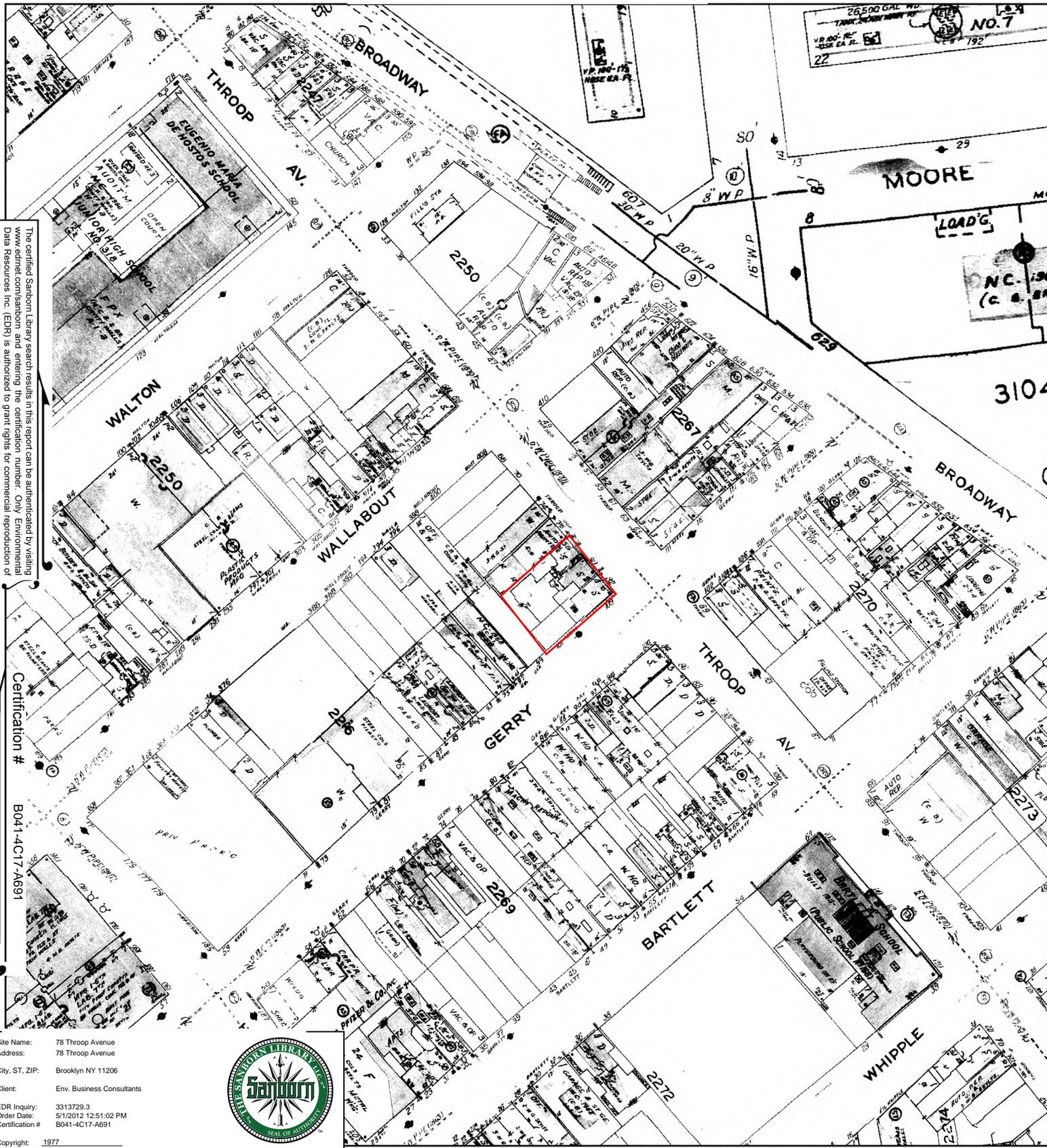
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# 1977 Certified Sanborn Map



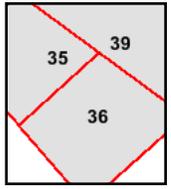
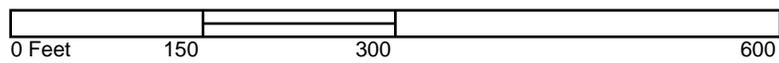
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# 1965 Certified Sanborn Map



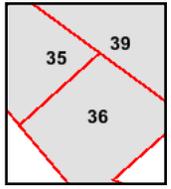
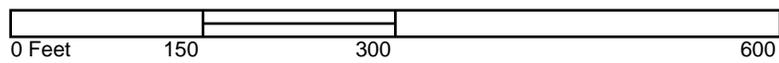
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 Copyright: 1965



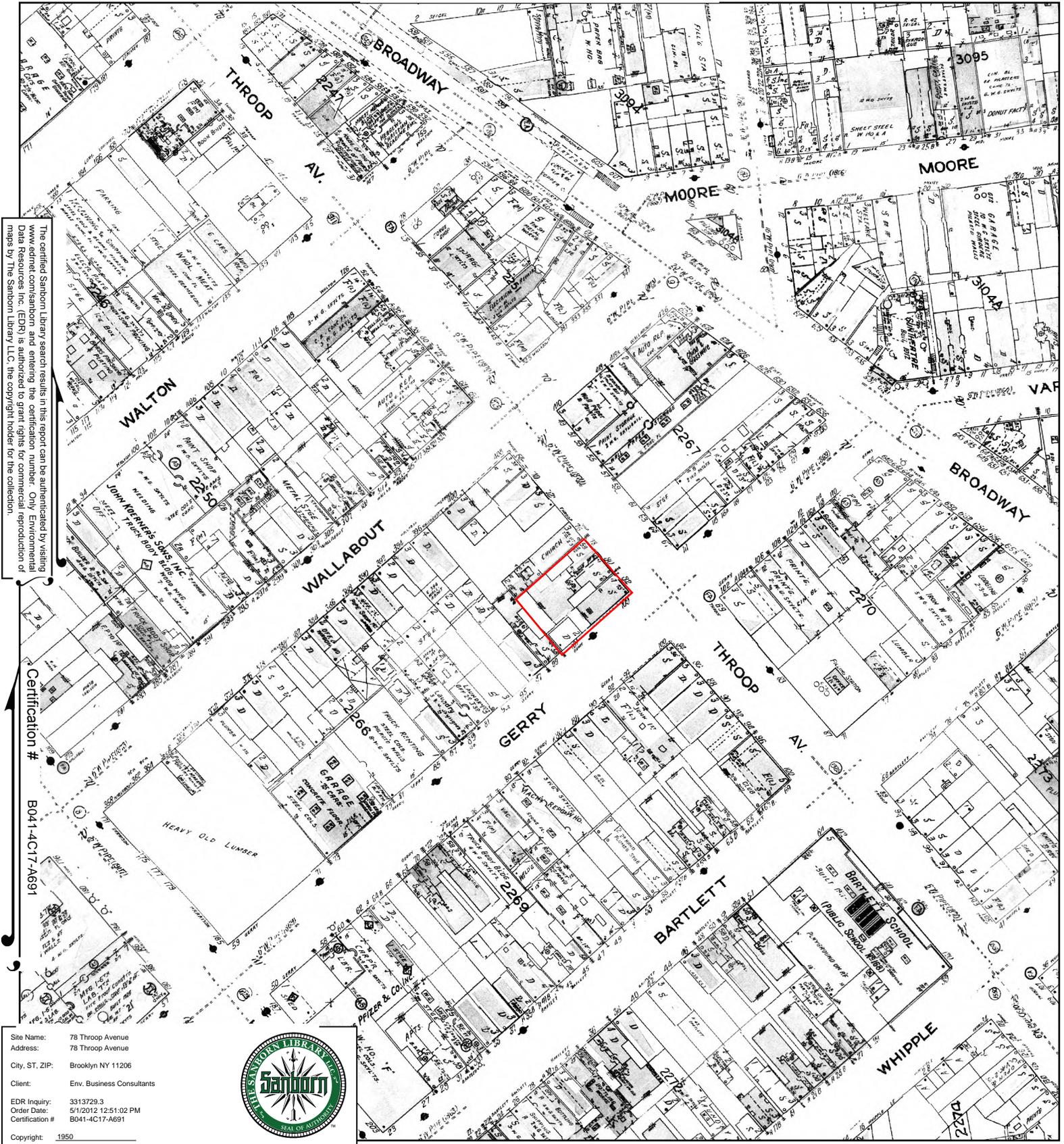
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# 1950 Certified Sanborn Map



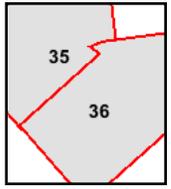
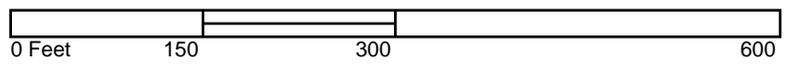
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 Certification #: B041-4C17-A691  
 Copyright: 1950



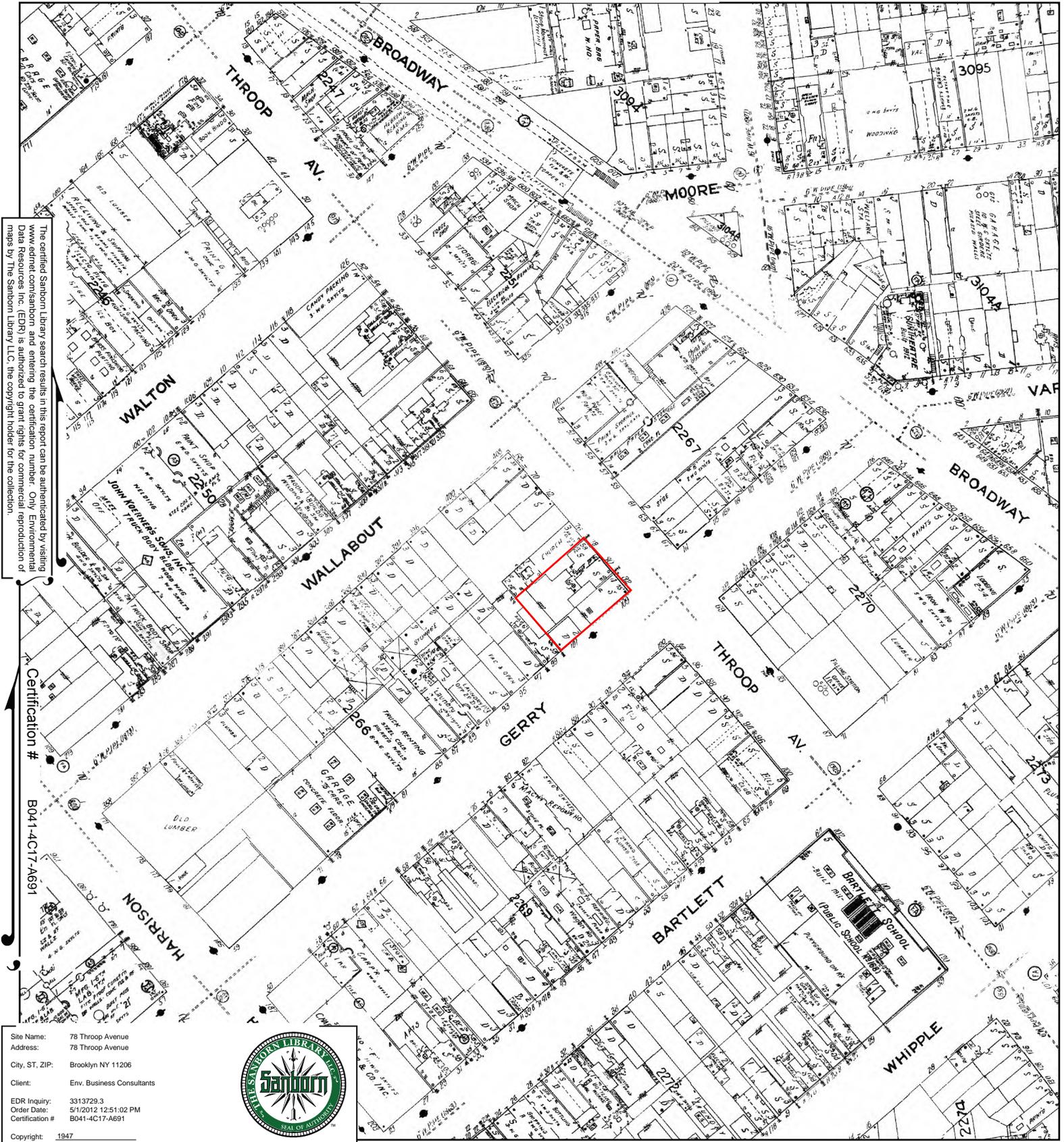
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# 1947 Certified Sanborn Map



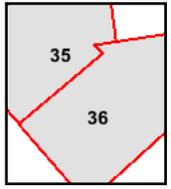
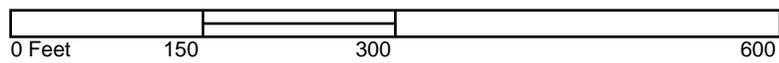
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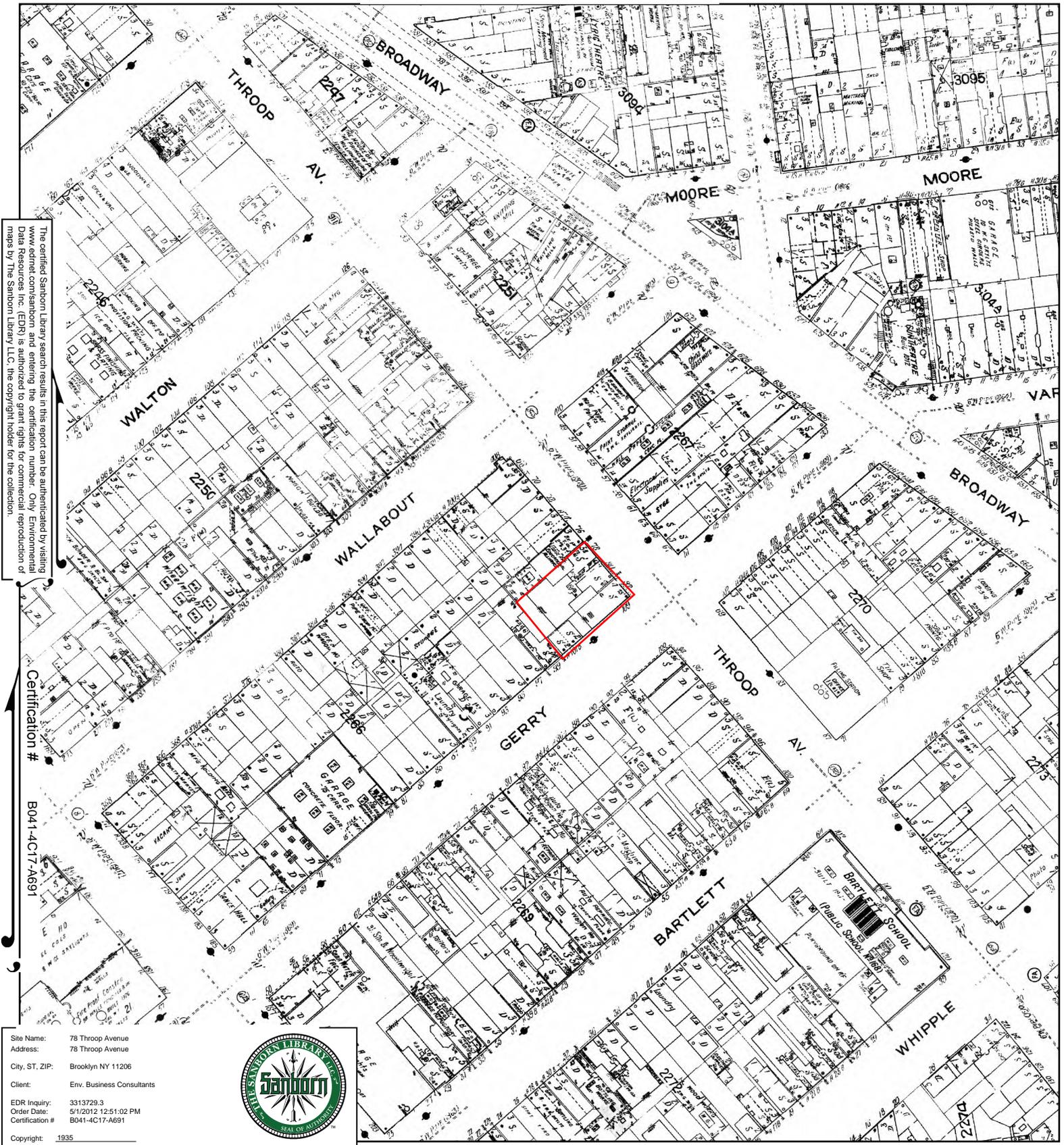
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# 1935 Certified Sanborn Map



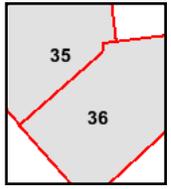
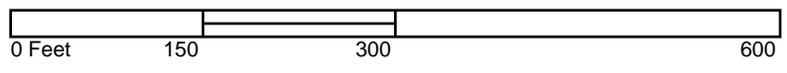
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# 1918 Certified Sanborn Map



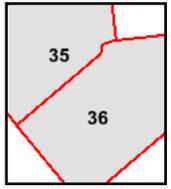
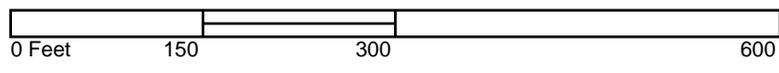
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 Volume 3, Sheet 36



# 1904 Certified Sanborn Map



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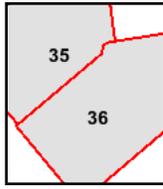
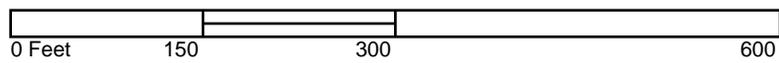
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Copyright: 1904

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# 1887 Certified Sanborn Map



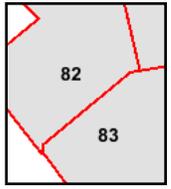
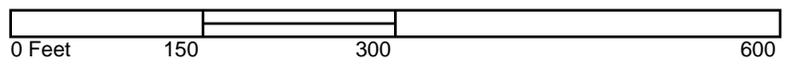
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 Certification #: B041-4C17-A691  
 Copyright: 1887



This Certified Sanborn Map combines the following sheets.  
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Volume 3, Sheet 82  
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# APPENDIX D

## CITY DIRECTORY SEARCH

**78 Throop Avenue**

78 Throop Avenue  
Brooklyn, NY 11206

Inquiry Number: 3313729.4  
May 01, 2012

## The EDR-City Directory Abstract

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### SECTION

Executive Summary

Findings

City Directory Images

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1928 through 2005. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

A summary of the information obtained is provided in the text of this report.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2005	Hill-Donnelly Corporation	-	X	X	-
2000	Cole Information Services	-	-	-	-
1997	NYNEX	-	X	X	-
1992	NYNEX Information Resource Co.	-	X	X	-
1985	NYNEX Information Resources Company	-	X	X	-
1980	New York Telephone	-	X	X	-
1976	New York Telephone	X	X	X	-
1973	New York Telephone	X	X	X	-
1970	New York Telephone	X	X	X	-
1965	New York Telephone	X	X	X	-
1960	New York Telephone	X	X	X	-
	New York Telephone Company	X	X	X	-
1949	New York Telephone Company	X	X	X	-
1945	New York Telephone Company	-	X	X	-
1940	New York Telephone Company	X	X	X	-
1934	R. L. Polk & Co.	X	X	X	-
1928	New York Telephone	X	X	X	-

## EXECUTIVE SUMMARY

### SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<b><u>Address</u></b>	<b><u>Type</u></b>	<b><u>Findings</u></b>
76 Throop Avenue	Client Entered	X
80 Throop Avenue	Client Entered	X
82 Throop Avenue	Client Entered	X
99 Gerry Street	Client Entered	X
101 Gerry Street	Client Entered	X
109 Gerry Street	Client Entered	
61 Throop Avenue	Client Entered	X
63 Throop Avenue	Client Entered	
67 Throop Avenue	Client Entered	X

## FINDINGS

### TARGET PROPERTY INFORMATION

#### ADDRESS

78 Throop Avenue  
Brooklyn, NY 11206

#### FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1976	KELLY MARY	New York Telephone
	OLIVERA C	New York Telephone
	PONS JUAN	New York Telephone
	RIVERA SANDRA	New York Telephone
	WILLIAMS LEROY	New York Telephone
1973	Maldanada Angel	New York Telephone
	Pons Juan	New York Telephone
	Reyes Haydee	New York Telephone
	Williams Leroy	New York Telephone
1970	Gonzalez Mariano	New York Telephone
	Navedo Virginia Mrs	New York Telephone
	Pons Juan	New York Telephone
	Rodriguez Hector	New York Telephone
	Throop Av Restrnt	New York Telephone
	Williams Leroy	New York Telephone
1965	Grant Ernest	New York Telephone
	Langford Jas	New York Telephone
	Navedo Virginia Mrs	New York Telephone
	Rodriguez Gerardo	New York Telephone
	Thomas Wm	New York Telephone
	Throop Av Restrnt	New York Telephone
	Williams Jas	New York Telephone
	Williams Leroy	New York Telephone
1960	HUGHEY LEROY	New York Telephone
	MARTIN MARY	New York Telephone
	RODRIGUEZ GERARDO	New York Telephone
	THOMAS WM	New York Telephone
	THROOP RESTRNT	New York Telephone
	WILLIAMS JAS	New York Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	WILLIAMS LEROY	New York Telephone
	Hughey Leroy	New York Telephone Company
	Martin Mary	New York Telephone Company
	Rodriguez Gerardo	New York Telephone Company
	Thomas Wm	New York Telephone Company
	Throop Restrnt	New York Telephone Company
	Williams Jas	New York Telephone Company
	Williams Leroy	New York Telephone Company
1949	Alperowitz Bessie	New York Telephone Company
	Soffer Morris	New York Telephone Company
	Throop Luncheonette	New York Telephone Company
1940	Fordansky Guldie delcatesn	New York Telephone Company
	Kaufman Ida	New York Telephone Company
1934	PLANZER	R. L. Polk & Co.
	ACCT R	R. L. Polk & Co.
	AGNEW JAS A R	R. L. Polk & Co.
	ALAMO FRANK CHAUF H	R. L. Polk & Co.
	BIENDERMAN JENNIE BKPR R	R. L. Polk & Co.
	BIENSTOCK ALBERT SLSMN R	R. L. Polk & Co.
	BIENSTOCK MURRAY SLSMN R	R. L. Polk & Co.
	CHIMASKY WM DRY GDS H	R. L. Polk & Co.
	CHRIDAD MANUEL FIREMN H	R. L. Polk & Co.
	CHRIDAD MANUEL JR CLK R	R. L. Polk & Co.
	COHEN LOUIS PNTR H	R. L. Polk & Co.
	COHEN LOUIS CLK R	R. L. Polk & Co.
	COHEN LOWES PAINTER H	R. L. Polk & Co.
	COHEN PERRY CLK R	R. L. Polk & Co.
	COHEN SAM SHIP CLK R	R. L. Polk & Co.
	COHEN SAML CLK R	R. L. Polk & Co.
	COHN LOUIS R	R. L. Polk & Co.
	CRUZ CARLO LAB R	R. L. Polk & Co.
	CRUZ JOS LAB H	R. L. Polk & Co.
	HARRY LAB H	R. L. Polk & Co.
	KAUFMAN ABR CLK ARMORY BD R	R. L. Polk & Co.
	KAUFMAN ANNA CLK R	R. L. Polk & Co.
	KAUFMAN DAVID CASH R	R. L. Polk & Co.
	KAUFMAN HARRY ATNDT OFFCR DEPT OF EDUC R	R. L. Polk & Co.
	KAUFMAN IDA BKPR R	R. L. Polk & Co.

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	KAUFMAN ISIDORE H	R. L. Polk & Co.
	KAUFMAN SAML SLSMN R	R. L. Polk & Co.
	LEWIS HARRY MEAT CTR H	R. L. Polk & Co.
	LEWIS HARRY JR BATTER R	R. L. Polk & Co.
	LITSKY JOS CARP H	R. L. Polk & Co.
	LITSKY JULIUS CLK R	R. L. Polk & Co.
	NEWMARK ISIDORE LAB H	R. L. Polk & Co.
	PFLANZER MORRIS BAKER H	R. L. Polk & Co.
	RAMIER CHAS SLSMN R	R. L. Polk & Co.
	RAMIER HORMAN DLR H	R. L. Polk & Co.
	RAMIER MINNIE PKR R	R. L. Polk & Co.
	REIS JAS PDLR H	R. L. Polk & Co.
	RIVERA AURELIA CASH R	R. L. Polk & Co.
	RIVERA JOHN LAB R	R. L. Polk & Co.
	RIVERA JOHN CHAUF R	R. L. Polk & Co.
	RIVERA JOSPHINE CLK R	R. L. Polk & Co.
	ROSE ROSE RESTR	R. L. Polk & Co.
	ROSENTHAL AARON CLK R	R. L. Polk & Co.
	ROSENTHALL MILTON CLK H	R. L. Polk & Co.
	ROSENTHALL MORRIS BKPR R	R. L. Polk & Co.
	ROTHMAN SOL PNTR H	R. L. Polk & Co.
	SIMON ESTHER TCHR YESHIVATH TOCAH VODAATH INC R	R. L. Polk & Co.
	SIMON PHILIP CLK R	R. L. Polk & Co.
	SIMON WOLF OPR H	R. L. Polk & Co.
	SOFFER HARRY SLSMN R	R. L. Polk & Co.
	SOFFER JACOB OPR H	R. L. Polk & Co.
	SOFFER MORRIS CLK R	R. L. Polk & Co.
	STARR ABR CHAUF H	R. L. Polk & Co.
	STARR DIANNA SLSWN R	R. L. Polk & Co.
	STARR HARRY CHAUF R	R. L. Polk & Co.
	STARR HERMAN MECH R	R. L. Polk & Co.
	STUDENT R	R. L. Polk & Co.
1928	BELOTEN ISRAEL R	New York Telephone
	SIMON R	New York Telephone

## FINDINGS

### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

### GERRY

#### 102 GERRY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1992	MAGIC SALES INC	NYNEX Informantion Resource Co.
1976	FURMAN LYDIA	New York Telephone
	MCKIBB STAR ECONOMY DEVELOPMENT	New York Telephone
	MCKIBBS STARS SHOP	New York Telephone
1934	SCHWICK HENRY MECH H	R. L. Polk & Co.
	ROM ROSE BKPR JOHN T MATCHETT CO R	R. L. Polk & Co.
	ROM JOSEPHINE H	R. L. Polk & Co.
	RAM JOHN F POLICE R	R. L. Polk & Co.
	LISKO JOHN LAB H	R. L. Polk & Co.
	ROM JOHN POLICEMN R	R. L. Polk & Co.

#### 104 GERRY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1976	CABAN GLASS	New York Telephone
	MARRERO CARMEN	New York Telephone
1960	LEVIN BENJ & SONS GLAZR	New York Telephone
	MALAFKA NICHOLAS	New York Telephone
1934	WASSERMAN RUTH BKPR R	R. L. Polk & Co.
	HOFFNER LOUIS PHYS H DO	R. L. Polk & Co.
	WASSERMAN ABR BKPR R	R. L. Polk & Co.
	MILLER REBECCA MRS H	R. L. Polk & Co.
	MILLER FANNIE DRESS OPR R	R. L. Polk & Co.
	MALACHOWSKY JOHN WINDOW CLNR	R. L. Polk & Co.
	LARSEN JENS CARP H	R. L. Polk & Co.
	WASSERMAN JOS CONFR	R. L. Polk & Co.

#### 106 GERRY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	JIPPO ENTERPRISES INC	NYNEX Information Resources Company
1980	J&W NEWSPRINTERS INC	New York Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1976	J & W NEWSPRINTERS INC	New York Telephone
1934	CONTI THOS PLMBR H	R. L. Polk & Co.
	GULINO ALF LAB H	R. L. Polk & Co.
	MONASTERSKY MURRAY BARBER H DO	R. L. Polk & Co.
	NAPOLI CHAS BARBER H	R. L. Polk & Co.

### 115 GERRY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	PELLETERIA JOS M COPYIST R	R. L. Polk & Co.

### GERRY ST

#### 102 GERRY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	Maurano Rooerto Drama Studio	New York Telephone
1965	Otero Grocry Store	New York Telephone
	Castillo Jose A	New York Telephone
1940	Stagg Plumbing Supl Co Inc	New York Telephone Company
	Eisenberg J plmbng supls	New York Telephone Company

#### 104 GERRY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	Able Auto Glass	New York Telephone
	Levin Benj & Sons glazr	New York Telephone
1970	Able Auto Glass	New York Telephone
1965	Levin Benj & Sons glazr	New York Telephone
	Brown Margarita	New York Telephone
	Able Auto Glass	New York Telephone
1960	Malafka Nicholas	New York Telephone Company
	Levin Benj & Sons glazr	New York Telephone Company

#### 106 GERRY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Multi Unit Address	Hill-Donnelly Corporation
	Concha Nancy	Hill-Donnelly Corporation
	Number4 E Espada Elizabeth	Hill-Donnelly Corporation
	Jack Aphieka	Hill-Donnelly Corporation
	Jones Raynell v 07 Lainez Idalia	Hill-Donnelly Corporation
	Leeron Leanaea	Hill-Donnelly Corporation

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Number28 Madison Jeleta	Hill-Donnelly Corporation
	Marou Kindo	Hill-Donnelly Corporation
	Number6 H Martinez Julio v	Hill-Donnelly Corporation
	Number5D Micheli Georgina	Hill-Donnelly Corporation
	Number40 Perez Z	Hill-Donnelly Corporation
	Number2 F Rambert Denise	Hill-Donnelly Corporation
	Ramos ose	Hill-Donnelly Corporation
	Rodriguez Idalia	Hill-Donnelly Corporation
	Number2 H Rodriguez Rafael	Hill-Donnelly Corporation
	Salas Crystal	Hill-Donnelly Corporation
	Number6 A Saney Jon	Hill-Donnelly Corporation
	Number3 E Santiago Maritza	Hill-Donnelly Corporation
	Santos Diosa	Hill-Donnelly Corporation
	Sayies Frederica	Hill-Donnelly Corporation
	Sparrow Construction	Hill-Donnelly Corporation
	Town Restoration Group	Hill-Donnelly Corporation
	Walton Jena	Hill-Donnelly Corporation
1973	J & W Newsprinters Inc	New York Telephone
1965	Lustig Allen prntng	New York Telephone

### 111 GERRY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Multi Unit Address	Hill-Donnelly Corporation
	n Taub E	Hill-Donnelly Corporation
	Gross Anshel	Hill-Donnelly Corporation
	Number3 R N Hillman Jacob Number 2 R h Kaufman Jacob v	Hill-Donnelly Corporation
	H Landau Rachel v	Hill-Donnelly Corporation
	Schmeedalg Mayer	Hill-Donnelly Corporation
	Number2 Ln Schneealg M o	Hill-Donnelly Corporation
	Number4 R 11 Schnihtzter Joel	Hill-Donnelly Corporation
	NumberIR Schwartz Tobias	Hill-Donnelly Corporation

### Gerry Street

#### 101 Gerry Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	Matos Evangelina	New York Telephone
1970	Ayala Sam	New York Telephone
	Padilla Vincente	New York Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	Paiso C T	New York Telephone
1960	PAISO C T	New York Telephone
	Paiso C T	New York Telephone Company
1934	WOLKOWITZ DAVID TAILOR	R. L. Polk & Co.

### 99 Gerry Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	Carter Mildred Mrs	New York Telephone
	Poole Marie	New York Telephone
1960	FORD RICHD A	New York Telephone
	FARROW MAGGIE B	New York Telephone
	KINARD CLENDER	New York Telephone
	Ford Richd A	New York Telephone Company
	Kinard Clender	New York Telephone Company
	Farrow Maggie B	New York Telephone Company
1934	UNGER DORA INDRS H	R. L. Polk & Co.
	RYKIN HUGO ICEMN H	R. L. Polk & Co.
	ROSS MICHL I SHIP CLK R	R. L. Polk & Co.
	ROSS ROSA H	R. L. Polk & Co.
	ROSE ROSE RESTR	R. L. Polk & Co.
	BLOOM BEATRICE SLSWN R	R. L. Polk & Co.
	JONES FRED H	R. L. Polk & Co.
	GERSHANSKY HYMAN H	R. L. Polk & Co.
	SOLOMON MOE H	R. L. Polk & Co.
	BLOOM YETTA H	R. L. Polk & Co.

### THEROOP AVE

#### 78 THEROOP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	RAMIER ABR BKPR R	R. L. Polk & Co.

### THROON AVE

#### 65 THROON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	SIRISKY SATHAN H	R. L. Polk & Co.

## FINDINGS

### 82 THROON AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	KAHANSKY SARAH SLSWN R	R. L. Polk & Co.

### THROOP

#### 82 THROOP

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	FRANKEL ISRAEL DRUGGIST H DO	R. L. Polk & Co.

#### 84 THROOP

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	STEPCHUCK SAML PRSMN H	R. L. Polk & Co.

### THROOP AVE

#### 55 THROOP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Multi Unit Address	Hill-Donnelly Corporation
	Fulop hana	Hill-Donnelly Corporation
	Number3 C Landau Joel	Hill-Donnelly Corporation
	Lefkowitz Simon	Hill-Donnelly Corporation
	Number6D H Mandel Solomon	Hill-Donnelly Corporation
	Number5D K Retek M	Hill-Donnelly Corporation
	Rutner Abraham	Hill-Donnelly Corporation
	Number1 C Shtesl Asher	Hill-Donnelly Corporation
	Spitzer Akiva	Hill-Donnelly Corporation
	Tauber Benjamin	Hill-Donnelly Corporation
	Number7 C It Teitelbaum Joel	Hill-Donnelly Corporation
	Throop Realty Corp	Hill-Donnelly Corporation
	Weinberger Joel	Hill-Donnelly Corporation
	Number3D H Bassul Miriam	Hill-Donnelly Corporation
1997	Throop Transmission	NYNEX
1985	TUNNELL MARGARET MRS	NYNEX Information Resources Company
1976	DELOATCH L	New York Telephone
1960	FEUER S B	New York Telephone
	MORTON PAPR CO	New York Telephone
	Feuer S b	New York Telephone Company
	Morton Papr Co	New York Telephone Company
1934	SLSMN R	R. L. Polk & Co.

## FINDINGS

### 57 THROOP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Friedman Moses	Hill-Donnelly Corporation
	Weiss Sander	Hill-Donnelly Corporation
	HSchwartz J Y7	Hill-Donnelly Corporation
	HKatz C v oc	Hill-Donnelly Corporation
	h Gluck Lazar	Hill-Donnelly Corporation
	Friedman Moses	Hill-Donnelly Corporation
1997	Vipeo Inc	NYNEX
1992	VIPEO INC	NYNEX Informantion Resource Co.

### 59 THROOP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Weber Mordechai	Hill-Donnelly Corporation
	Multi Unit Address	Hill-Donnelly Corporation
	Number1 B h Appe Issac	Hill-Donnelly Corporation
	Number3 AHFischer J	Hill-Donnelly Corporation
	Number3 Turner Yehuda	Hill-Donnelly Corporation
	Szimonowitz Beri & Goldie	Hill-Donnelly Corporation
	NumberSA HSchwartz J V	Hill-Donnelly Corporation
	Number2 BHPerl E	Hill-Donnelly Corporation
	Lebowitz Chaya	Hill-Donnelly Corporation
	Number3 CHGreen B	Hill-Donnelly Corporation
	Number2 AH Freed P	Hill-Donnelly Corporation
	1973	Metro Lining Co
Metropolitan Packing Mfg Co		New York Telephone
1970	Metro Lining Co	New York Telephone
1940	Osborg F E Mrs	New York Telephone Company

### 61 THROOP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Katz Avrom	Hill-Donnelly Corporation
	Green Bela	Hill-Donnelly Corporation
	Rottenberg Moishe	Hill-Donnelly Corporation
	Melsels Ezekiel	Hill-Donnelly Corporation
	Markowitz Samuel	Hill-Donnelly Corporation
	h Katz Avrom	Hill-Donnelly Corporation

## FINDINGS

### 65 THROOP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Sirisky Nathan	New York Telephone Company
1945	Sirisky Nathan	New York Telephone Company
1934	SHEER WM CIGAR MKR H	R. L. Polk & Co.
	RUSSO PETER R	R. L. Polk & Co.
	GOODMAN JOSHUA GRO H DO	R. L. Polk & Co.
	GENNA MICHL PRINTER R	R. L. Polk & Co.
	GENNA GASPARD MEAT CTR H	R. L. Polk & Co.
	ROSATI VINCENT R	R. L. Polk & Co.
1928	SIRISKY NATHAN RL EST	New York Telephone

### 67 THROOP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	MATULA NICHOLAS BARBER H DO	R. L. Polk & Co.
	MITCHELL JOS CHAUF H	R. L. Polk & Co.
	SCHWERDLINGER ROBT CTR H	R. L. Polk & Co.
	WEIDNER H	R. L. Polk & Co.
1928	ROSENTHAL S STATNY	New York Telephone

### 74 THROOP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Royal Taste	Hill-Donnelly Corporation
1985	H E AUTO BODY	NYNEX Information Resources Company
1960	Continentl Sales & Sewing Machine Co	New York Telephone Company
	CONTINENTL SALES & SEWING MACHINE CO	New York Telephone
1934	FREEDMAN JOS LAB H	R. L. Polk & Co.
	JERESHEYSKY JOS H	R. L. Polk & Co.
	KAMNSKY JOS OPR H	R. L. Polk & Co.
	KOTES JOS OPR H	R. L. Polk & Co.
	SILVERMAN FRANK JWLR H	R. L. Polk & Co.
	SILVERMAN SAML JWLR R	R. L. Polk & Co.
	LEE JOS RESTR H	R. L. Polk & Co.
1928	GISKIN M STATNY	New York Telephone

### 76 THROOP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	THROOP BODY & FENDER SPCLSTS	New York Telephone
1976	THROOP BODY & FENDER SPCISTS	New York Telephone
1970	Willies Auto Repr Shop	New York Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1945	Womack Herbert B Rev study	New York Telephone Company
1940	Womack Herbert B Rev study	New York Telephone Company
1934	ROBINSON JULIUS TREAS WILLIAMSBURG EDUCATIONAL ALLIANCE	R. L. Polk & Co.
	SCHMLULUSON SOL SEC WILLIAMSBURG EDUCATIONAL ALLIANCE	R. L. Polk & Co.
	SCHMULINSON SAML SEC WMSBURG EDUCATIONAL ALLIANCE INC	R. L. Polk & Co.
	WILLIAMSBURG EDUCATIONAL ALLIANCE INC ABR RUBIN PRES SAML SCHMULINSON SEC	R. L. Polk & Co.
1928	WMSBURG EDUCATIONAL ALLIANCE	New York Telephone

### 80 THROOP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	Perez Danl	New York Telephone
1970	Perez Danl	New York Telephone
	Smith Arliatha	New York Telephone
1960	BRISTER CEATIE MRS	New York Telephone
	PALMER CHAS H	New York Telephone
	Brister Ceatie Mrs	New York Telephone Company
	Palmer Chas H	New York Telephone Company
1949	Litsky Anna Mrs	New York Telephone Company
1945	Newmark Max	New York Telephone Company
	Bienstock Al	New York Telephone Company
	Litsky Beatrice	New York Telephone Company
1940	Newmark Max	New York Telephone Company
1934	IULIANO FRANK BARBER H DO	R. L. Polk & Co.
	SCHAFFER BERNHARD PRESSERS & CLNRS	R. L. Polk & Co.
	SHAFFER BERNARD CLNR H DO	R. L. Polk & Co.

### 82 THROOP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	Marreros Grocry Store	New York Telephone
1970	Gonzalez Benjamin	New York Telephone
	Marreros Grocry Store	New York Telephone
1965	Cruz Anna D	New York Telephone
	Santiago Victor	New York Telephone
1960	JAY BEE GROCERY	New York Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	PEREZ ALFRED	New York Telephone
	TESSLER SOLOMON RABBI	New York Telephone
	Jay Bee Grocry	New York Telephone Company
	Perez Alfred	New York Telephone Company
	Schriftman Maury b	New York Telephone Company
	Tessler Solomon Rabbi	New York Telephone Company
	SCHRIFTMAN MAURY B	New York Telephone
1949	Dubin Pauline Mrs	New York Telephone Company
	Dubinsky Benj	New York Telephone Company
	Erdell Jos	New York Telephone Company
	Jay Bee Grocry	New York Telephone Company
	Nefsky Jeanette	New York Telephone Company
	Schriftman Maury b	New York Telephone Company
1945	Erdell Jos	New York Telephone Company
	Schriftman Maury	New York Telephone Company
1934	RABINOWITZ CTR H	R. L. Polk & Co.
	TENZER BENJ CLK R	R. L. Polk & Co.
	TENZER HELEN OPR R	R. L. Polk & Co.
	TENZER MAX PRSMN H	R. L. Polk & Co.
	TENZER RUTH STEN R	R. L. Polk & Co.
	ZIMLER MAX BAKER H	R. L. Polk & Co.
	KOHANSKY PAUL FRUIT	R. L. Polk & Co.
	KAHANSKY LILLIAN BKPR R	R. L. Polk & Co.
	KAHANSKY PAUL PDLR H	R. L. Polk & Co.
1928	FRANKEL I DRUGGIST	New York Telephone

### 84 THROOP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1976	MARRERO S GROCERY STORE	New York Telephone
	SANTIAGO LEONIDES S	New York Telephone
1973	Calderon Raul	New York Telephone
1970	Calderon Raul	New York Telephone
1965	Aponte Ana M Mrs	New York Telephone
1960	SAEZ MICHL E	New York Telephone
	SAEZ WILSON B	New York Telephone
	ZARIN HERBERT	New York Telephone
	Saez Michl E	New York Telephone Company
	Saez Wilson b	New York Telephone Company
	Zarin Herbert	New York Telephone Company

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1949	Honig Geo Co ins	New York Telephone Company
	Landesberg Engrnrng Co	New York Telephone Company
	Landesberg Sewing Machine Co	New York Telephone Company
	Marland Lead Seal Co	New York Telephone Company
	Simchik Alice B	New York Telephone Company
1945	Landesberg Engrnrng Co	New York Telephone Company
	Landesberg Sewing Machine Co	New York Telephone Company
	Marland Lead Seal Co	New York Telephone Company
	Schneider Sol	New York Telephone Company
1934	ANDREYKO THEO WALTER R	R. L. Polk & Co.
	ANDREYKO STEVEN BAKER H	R. L. Polk & Co.
	LANDESBERG ENGINEERING CO INC SAML LANDESBERG PRESTREAS ELEC CONTR	R. L. Polk & Co.
	LANDESBERG SAML PRES-TREAS LANDESBERG ENGINEERING CO INC	R. L. Polk & Co.
1928	BLACK DAVID R	New York Telephone
	LANDESBERG ENGINEERING CO ELEC CONTG	New York Telephone
	LANDESBERG MARTIN M ELEC CONTR	New York Telephone

### Throop Avenue

#### **61 Throop Avenue**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Green Bela	Hill-Donnelly Corporation
	Katz Avrom	Hill-Donnelly Corporation
	h Katz Avrom	Hill-Donnelly Corporation
	Melsels Ezekiel	Hill-Donnelly Corporation
	Rottenberg Moishe	Hill-Donnelly Corporation
	Markowitz Samuel	Hill-Donnelly Corporation

#### **67 Throop Avenue**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	MATULA NICHOLAS BARBER H DO	R. L. Polk & Co.
	MITCHELL JOS CHAUF H	R. L. Polk & Co.
	SCHWERDLINGER ROBT CTR H	R. L. Polk & Co.
	WEIDNER H	R. L. Polk & Co.
1928	ROSENTHAL S STATNY	New York Telephone

## FINDINGS

### 76 Throop Avenue

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	THROOP BODY & FENDER SPCLSTS	New York Telephone
1976	THROOP BODY & FENDER SPCISTS	New York Telephone
1970	Willies Auto Repr Shop	New York Telephone
1945	Womack Herbert B Rev study	New York Telephone Company
1940	Womack Herbert B Rev study	New York Telephone Company
1934	WILLIAMSBURG EDUCATIONAL ALLIANCE INC ABR RUBIN PRES SAML SCHMULINSON SEC	R. L. Polk & Co.
	ROBINSON JULIUS TREAS WILLIAMSBURG EDUCATIONAL ALLIANCE	R. L. Polk & Co.
	SCHMLULUSON SOL SEC WILLIAMSBURG EDUCATIONAL ALLIANCE	R. L. Polk & Co.
	SCHMULINSON SAML SEC WMSBURG EDUCATIONAL ALLIANCE INC	R. L. Polk & Co.
1928	WMSBURG EDUCATIONAL ALLIANCE	New York Telephone

### 80 Throop Avenue

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	Perez Danl	New York Telephone
1970	Smith Arliatha	New York Telephone
	Perez Danl	New York Telephone
1960	BRISTER CEATIE MRS	New York Telephone
	PALMER CHAS H	New York Telephone
	Brister Ceatie Mrs	New York Telephone Company
	Palmer Chas H	New York Telephone Company
1949	Litsky Anna Mrs	New York Telephone Company
1945	Bienstock Al	New York Telephone Company
	Newmark Max	New York Telephone Company
	Litsky Beatrice	New York Telephone Company
1940	Newmark Max	New York Telephone Company
1934	SCHAFFER BERNHARD PRESSERS & CLNRS	R. L. Polk & Co.
	IULIANO FRANK BARBER H DO	R. L. Polk & Co.
	SHAFFER BERNARD CLNR H DO	R. L. Polk & Co.

### 82 Throop Avenue

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	Marreros Grocry Store	New York Telephone
1970	Gonzalez Benjamin	New York Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1970	Marrerros Grocry Store	New York Telephone
1965	Cruz Anna D	New York Telephone
	Santiago Victor	New York Telephone
1960	JAY BEE GROCRY	New York Telephone
	PEREZ ALFRED	New York Telephone
	SCHRIFTMAN MAURY B	New York Telephone
	TESSLER SOLOMON RABBI	New York Telephone
	Schriftman Maury b	New York Telephone Company
	Tessler Solomon Rabbi	New York Telephone Company
	Jay Bee Grocry	New York Telephone Company
	Perez Alfred	New York Telephone Company
1949	Dubin Pauline Mrs	New York Telephone Company
	Dubinsky Benj	New York Telephone Company
	Erdell Jos	New York Telephone Company
	Nefsky Jeanette	New York Telephone Company
	Jay Bee Grocry	New York Telephone Company
	Schriftman Maury b	New York Telephone Company
1945	Erdell Jos	New York Telephone Company
	Schriftman Maury	New York Telephone Company
1934	ZIMLER MAX BAKER H	R. L. Polk & Co.
	RABINOWITZ CTR H	R. L. Polk & Co.
	KOHANSKY PAUL FRUIT	R. L. Polk & Co.
	TENZER BENJ CLK R	R. L. Polk & Co.
	KAHANSKY LILLIAN BKPR R	R. L. Polk & Co.
	KAHANSKY PAUL PDLR H	R. L. Polk & Co.
	TENZER HELEN OPR R	R. L. Polk & Co.
	TENZER RUTH STEN R	R. L. Polk & Co.
	TENZER MAX PRSMN H	R. L. Polk & Co.
	FRANKEL ISRAEL DRUGGIST H DO	R. L. Polk & Co.
	TENZER JOS CLK R	R. L. Polk & Co.
1928	FRANKEL I DRUGGIST	New York Telephone

### THROOPE AVE

#### 82 THROOPE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	TENZER JOS CLK R	R. L. Polk & Co.

## FINDINGS

### THRROP AVE

#### 78 THRROP AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	BIENSTOCK WM DPLR H	R. L. Polk & Co.

## FINDINGS

### TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

#### Address Researched

78 Throop Avenue

#### Address Not Identified in Research Source

2005, 2000, 1997, 1992, 1985, 1980, 1945

### ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

#### Address Researched

101 Gerry Street

102 GERRY

102 GERRY ST

104 GERRY

104 GERRY ST

106 GERRY

106 GERRY ST

109 Gerry Street

111 GERRY ST

115 GERRY

55 THROOP AVE

57 THROOP AVE

59 THROOP AVE

61 THROOP AVE

61 Throop Avenue

63 Throop Avenue

65 THROON AVE

65 THROOP AVE

67 THROOP AVE

#### Address Not Identified in Research Source

2005, 2000, 1997, 1992, 1985, 1980, 1976, 1949, 1945, 1940, 1928

2005, 2000, 1997, 1985, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928

2005, 2000, 1997, 1992, 1985, 1980, 1976, 1970, 1960, 1949, 1945, 1934, 1928

2005, 2000, 1997, 1992, 1985, 1980, 1973, 1970, 1965, 1949, 1945, 1940, 1928

2005, 2000, 1997, 1992, 1985, 1980, 1976, 1949, 1945, 1940, 1934, 1928

2005, 2000, 1997, 1992, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928

2000, 1997, 1992, 1985, 1980, 1976, 1970, 1960, 1949, 1945, 1940, 1934, 1928

2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928

2000, 1992, 1980, 1973, 1970, 1965, 1949, 1945, 1940, 1928

2000, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

2000, 1997, 1992, 1985, 1980, 1976, 1965, 1960, 1949, 1945, 1934, 1928

2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928

2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1940

2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940

## FINDINGS

### Address Researched

### Address Not Identified in Research Source

67 Throop Avenue	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940
74 THROOP AVE	2000, 1997, 1992, 1980, 1976, 1973, 1970, 1965, 1949, 1945, 1940
76 THROOP AVE	2005, 2000, 1997, 1992, 1985, 1973, 1965, 1960, 1949
76 Throop Avenue	2005, 2000, 1997, 1992, 1985, 1973, 1965, 1960, 1949
78 THEROOP AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
78 THRROP AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
80 THROOP AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1965, 1928
80 Throop Avenue	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1965, 1928
82 THROON AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
82 THROOP	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
82 THROOP AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1940
82 Throop Avenue	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1940
82 THROOPE AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
84 THROOP	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
84 THROOP AVE	2005, 2000, 1997, 1992, 1985, 1980, 1940
99 Gerry Street	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1949, 1945, 1940, 1928

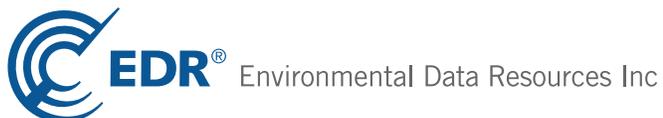
# APPENDIX E

## EDR RADIUS MAP REPORT

**78 Throop Avenue**  
78 Throop Avenue  
Brooklyn, NY 11206

Inquiry Number: 3313729.2s  
May 01, 2012

## EDR Summary Radius Map Report



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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***Thank you for your business.***  
 Please contact EDR at 1-800-352-0050  
 with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

78 THROOP AVENUE  
BROOKLYN, NY 11206

#### COORDINATES

Latitude (North): 40.7023000 - 40° 42' 8.28"  
Longitude (West): 73.9468000 - 73° 56' 48.48"  
Universal Transverse Mercator: Zone 18  
UTM X (Meters): 588976.2  
UTM Y (Meters): 4506032.5  
Elevation: 13 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: TP  
Source: USGS 7.5 min quad index

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2009, 2010  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
 78 THROOP AVENUE  
 BROOKLYN, NY 11206

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft.) DIRECTION
<a href="#">A1</a>	LOT 31,TAXBLOCK 2266	76 THROOP AVENUE	E DESIGNATION	Higher	27, NE
<a href="#">A2</a>	LOT 30,TAXBLOCK 2266	74 THROOP AVENUE	E DESIGNATION	Higher	44, NNE
<a href="#">A3</a>	LOT 36,TAXBLOCK 2266	99 GERRY STREET	E DESIGNATION	Higher	65, SSE
<a href="#">A4</a>	LOT 34,TAXBLOCK 2266	82 THROOP AVENUE	E DESIGNATION	Higher	65, East
<a href="#">A5</a>	LOT 37,TAXBLOCK 2266	97 GERRY STREET	E DESIGNATION	Higher	66, South
<a href="#">A6</a>	LOT 38,TAXBLOCK 2266	95 GERRY STREET	E DESIGNATION	Higher	68, South
<a href="#">A7</a>	ON GROUND	90-92 GERRY STREET	NY Spills	Higher	74, SSE
<a href="#">A8</a>	LOT 25,TAXBLOCK 2269	90 GERRY STREET	E DESIGNATION	Higher	74, SSE
<a href="#">A9</a>	LOT 24,TAXBLOCK 2269	88 GERRY STREET	E DESIGNATION	Higher	76, South
<a href="#">A10</a>	LOT 29,TAXBLOCK 2266	72 THROOP AVENUE	E DESIGNATION	Higher	77, North
<a href="#">A11</a>	LOT 27,TAXBLOCK 2269	84 THROOP AVENUE	E DESIGNATION	Higher	80, ESE
<a href="#">A12</a>	LOT 23,TAXBLOCK 2269	86 GERRY STREET	E DESIGNATION	Higher	82, South
<a href="#">A13</a>	LOT 39,TAXBLOCK 2266	93 GERRY STREET	E DESIGNATION	Higher	87, South
<a href="#">B14</a>	LOT 40,TAXBLOCK 2266	91 GERRY STREET	E DESIGNATION	Higher	105, SSW
<a href="#">B15</a>	PFIZER INC. BROOKLYN	80 GERRY STREET	UST, HIST UST	Higher	132, SSW
<a href="#">A16</a>	LOT 29,TAXBLOCK 2269	88 THROOP AVENUE	E DESIGNATION	Higher	141, ESE
<a href="#">A17</a>	LOT 25,TAXBLOCK 2266	398 WALLABOUT STREET	E DESIGNATION	Higher	148, WNW
<a href="#">A18</a>	MAGIC AUTO REPAIR SH	398 WALLABOUT STREET	AST	Higher	148, WNW
<a href="#">A19</a>	398 WALLABOUT STREET	398 WALLABOUT ST	NY Spills, NY Hist Spills	Higher	148, WNW
<a href="#">A20</a>	LOT 23,TAXBLOCK 2266	394 WALLABOUT STREET	E DESIGNATION	Higher	151, WNW
<a href="#">B21</a>	LOT 19,TAXBLOCK 2269	78 GERRY STREET	E DESIGNATION	Higher	154, SSW
<a href="#">A22</a>	VARTEX INSTRUMENT CO	311 WALLABOUT ST	RCRA-NonGen, FINDS, MANIFEST	Higher	158, WNW
<a href="#">A23</a>	LOT 37,TAXBLOCK 2250	311 WALLABOUT STREET	E DESIGNATION	Higher	158, WNW
<a href="#">A24</a>	LOT 36,TAXBLOCK 2250	313 WALLABOUT STREET	E DESIGNATION	Higher	158, WNW
<a href="#">A25</a>	LOT 33,TAXBLOCK 2250	66 THROOP AVENUE	E DESIGNATION	Higher	164, NNW
<a href="#">C26</a>	307 WALLABOUT STREE	307 WALLABOUT STREET	UST, HIST UST, E DESIGNATION	Higher	168, West
<a href="#">B27</a>	LOT 21,TAXBLOCK 2266	390 WALLABOUT STREET	E DESIGNATION	Higher	169, West
<a href="#">A28</a>	LOT 30,TAXBLOCK 2269	90 THROOP AVENUE	E DESIGNATION	Higher	173, ESE
<a href="#">B29</a>	LOT 18,TAXBLOCK 2269	76 GERRY STREET	E DESIGNATION	Higher	176, SSW
<a href="#">C30</a>	LOT 40,TAXBLOCK 2250	305 WALLABOUT STREET	E DESIGNATION	Higher	177, West
<a href="#">B31</a>	LOT 20,TAXBLOCK 2266	388 WALLABOUT STREET	E DESIGNATION	Higher	183, West
<a href="#">B32</a>	LOT 19,TAXBLOCK 2266	386 WALLABOUT STREET	E DESIGNATION	Higher	194, West
<a href="#">B33</a>	LOT 17,TAXBLOCK 2269	74 GERRY STREET	E DESIGNATION	Higher	198, SSW
<a href="#">C34</a>	LOT 18,TAXBLOCK 2266	384 WALLABOUT STREET	E DESIGNATION	Higher	216, West
<a href="#">C35</a>	LOT 17,TAXBLOCK 2266	382 WALLABOUT STREET	E DESIGNATION	Higher	235, West
<a href="#">A36</a>	LOT 32,TAXBLOCK 2250	62 THROOP AVENUE	E DESIGNATION	Higher	235, NNW
<a href="#">C37</a>	LOT 16,TAXBLOCK 2266	380 WALLABOUT STREET	E DESIGNATION	Higher	255, WSW
<a href="#">A38</a>	LOT 22,TAXBLOCK 2266	392 WALLABOUT STREET	E DESIGNATION	Higher	260, NNE
<a href="#">C39</a>	LOT 41,TAXBLOCK 2250	295 WALLABOUT STREET	E DESIGNATION	Higher	261, WSW

MAPPED SITES SUMMARY

Target Property Address:  
78 THROOP AVENUE  
 BROOKLYN, NY 11206

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft.) DIRECTION
<a href="#">C40</a>	LOT 15,TAXBLOCK 2266	378 WALLABOUT STREET	E DESIGNATION	Higher	276, WSW
<a href="#">C41</a>	LOT 14,TAXBLOCK 2266	376 WALLABOUT STREET	E DESIGNATION	Higher	297, WSW
<a href="#">D42</a>	SOSA DIAGNOSTIC REPA	620 BROADWAY	AST	Higher	297, NNE
<a href="#">B43</a>	EMPTY LOT	73-87 GERRY STREET	NY Spills, NY Hist Spills	Higher	299, SSW
<a href="#">B44</a>	PFIZER SITES B AND D	59-71 GERRY ST. AND	VCP	Higher	299, SSW
<a href="#">B45</a>	PFIZER INC/GERRY ST	PFIZER INC/GERRY ST	LTANKS, HIST LTANKS	Higher	299, SSW
<a href="#">B46</a>	PFIZER INC BROOKLYN	73 GERRY ST	RCRA-CESQG, FINDS, MANIFEST	Higher	299, SSW
<a href="#">B47</a>	LOT 46,TAXBLOCK 2266	75 GERRY STREET	E DESIGNATION	Higher	299, SSW
<a href="#">B48</a>	EMPTY LOT	73-87 GERRY STREET	NY Hist Spills	Higher	299, SSW
<a href="#">C49</a>	LOT 46,TAXBLOCK 2250	291 WALLABOUT STREET	E DESIGNATION	Higher	302, WSW
<a href="#">C50</a>	LOT 48,TAXBLOCK 2250	289 WALLABOUT STREET	E DESIGNATION	Higher	324, WSW
<a href="#">E51</a>	LOT 33,TAXBLOCK 2269	69 BARTLETT STREET	E DESIGNATION	Higher	333, SE
<a href="#">E52</a>	LOT 35,TAXBLOCK 2269	65 BARTLETT STREET	E DESIGNATION	Higher	334, SE
<a href="#">E53</a>	LOT 36,TAXBLOCK 2269	63 BARTLETT STREET	E DESIGNATION	Higher	335, SE
<a href="#">E54</a>	LOT 39,TAXBLOCK 2269	57 BARTLETT STREET	E DESIGNATION	Higher	337, SSE
<a href="#">E55</a>	DRUM RUN	CORNER THROOP AVE AN	NY Spills	Higher	339, SE
<a href="#">E56</a>	BROADWAY TRIANGLE	THROOP AVE / BARTLET	NY Spills, NY Hist Spills	Higher	339, SE
<a href="#">E57</a>	THROOP AVENUE / BART	THROOP AVENUE / BART	UST, HIST UST	Higher	339, SE
<a href="#">E58</a>	LOT 40,TAXBLOCK 2269	55 BARTLETT STREET	E DESIGNATION	Higher	340, SSE
<a href="#">F59</a>	LOT 29,TAXBLOCK 2250	56 THROOP AVENUE	E DESIGNATION	Higher	344, NNW
<a href="#">E60</a>	LOT 41,TAXBLOCK 2269	53 BARTLETT STREET	E DESIGNATION	Higher	345, SSE
<a href="#">E61</a>	LOT 42,TAXBLOCK 2269	51 BARTLETT STREET	E DESIGNATION	Higher	352, SSE
<a href="#">D62</a>	APARTMENT BUILDING	613 BROADWAY	NY Spills, NY Hist Spills	Higher	356, North
<a href="#">G63</a>	SERVICE BOX # 7967	285 WALLABOUT ST	NY Spills	Higher	369, WSW
<a href="#">H64</a>	LOT 43,TAXBLOCK 2269	47 BARTLETT STREET	E DESIGNATION	Higher	372, South
<a href="#">F65</a>	LOT 28,TAXBLOCK 2250	54 THROOP AVENUE	E DESIGNATION	Higher	380, NNW
<a href="#">I66</a>	LOT 1,TAXBLOCK 2269	58 GERRY STREET	E DESIGNATION	Higher	394, SW
<a href="#">H67</a>	LOT 45,TAXBLOCK 2269	43 BARTLETT STREET	E DESIGNATION	Higher	399, South
<a href="#">H68</a>	LOT 11,TAXBLOCK 2272	36 BARTLETT STREET	E DESIGNATION	Higher	405, South
<a href="#">G69</a>	LOT 9,TAXBLOCK 2266	366 WALLABOUT STREET	E DESIGNATION	Higher	411, WSW
<a href="#">J70</a>	SERVICE BOX 15648	650 BROADWAY	NY Hist Spills	Higher	412, East
<a href="#">J71</a>	JUNKYARD	650 BROADWAY	NY Spills	Higher	412, East
<a href="#">H72</a>	LOT 47,TAXBLOCK 2269	41 BARTLETT STREET	E DESIGNATION	Higher	414, South
<a href="#">F73</a>	LOT 27,TAXBLOCK 2250	52 THROOP AVENUE	E DESIGNATION	Higher	416, NNW
<a href="#">D74</a>	VAULT 3871	MOORE AND LEONARD ST	NY Spills, NY Hist Spills	Higher	416, NNE
<a href="#">F75</a>	LOT 25,TAXBLOCK 2250	116 WALTON STREET	E DESIGNATION	Higher	419, NW
<a href="#">H76</a>	LOT 48,TAXBLOCK 2269	39 BARTLETT STREET	E DESIGNATION	Higher	431, South
<a href="#">H77</a>	LOT 49,TAXBLOCK 2269	37 BARTLETT STREET	E DESIGNATION	Higher	448, South
<a href="#">H78</a>	2001 HIGH TECH AUTO	30 BARTLETT STREET	UST	Higher	450, South

MAPPED SITES SUMMARY

Target Property Address:  
78 THROOP AVENUE  
 BROOKLYN, NY 11206

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft.) DIRECTION
H79	LOT 9,TAXBLOCK 2272	30 BARTLETT STREET	E DESIGNATION	Higher	450, South
F80	CITGO/ 594 BROADWAY	594 BROADWAY	HIST LTANKS, NY Spills	Higher	464, North
F81	RICHARDS AUTO REPAIR	594 BROADWAY	RCRA-NonGen, FINDS	Higher	464, North
F82	SUSION DEVELOPORS LLC	594 BROADWAY	UST, HIST UST, HIST AST	Higher	464, North
H83	LOT 50,TAXBLOCK 2269	35 BARTLETT STREET	E DESIGNATION	Higher	467, South
F84	DRUM RUN	BROADWAY & WALTON ST	NY Spills	Higher	473, North
K85	LOT 14,TAXBLOCK 2250	94 WALTON STREET	E DESIGNATION	Higher	493, WNW
K86	HOO CORP	94 WALLTON STREET	UST	Higher	493, WNW
H87	LOT 6,TAXBLOCK 2272	24 BARTLETT STREET	E DESIGNATION	Higher	501, South
G88	BAIS RUCHEL HIGH SCH	177 HARRISON AVE	RCRA-SQG	Higher	502, SW
G89	BAIS RUCHEL HIGH SCH	177 HARRISON AVE	MANIFEST	Higher	502, SW
H90	LOT 52,TAXBLOCK 2269	31 BARTLETT STREET	E DESIGNATION	Higher	506, South
I91	CON ED - MH 485	GERRY ST & HARRISON	RCRA-NonGen, MANIFEST	Higher	512, SW
I92	MANHOLE 1144	GERRY ST/HARRISON AV	NY Spills	Higher	512, SW
J93	CONSOLIDATED EDISON	662 BROADWAY	MANIFEST	Higher	519, East
J94	CON EDISON - MANHOLE	662 BROADWAY	RCRA-LQG	Higher	519, East
G95	LOT 12,TAXBLOCK 2250	90 WALTON STREET	E DESIGNATION	Higher	521, West
I96	ARLINGTON PRESS	191 HARRISON AVE	MANIFEST	Higher	523, SSW
I97	ARLINGTON PRESS-191	191 HARRISON AVE	RCRA-SQG, FINDS, MANIFEST	Higher	523, SSW
H98	29 BARTLETT STREET	29 BARTLETT STREET	NY Spills, NY Hist Spills	Higher	527, South
G99	MANHOLE 468	WALLABOUT ST/HARRISO	NY Spills, NY Hist Spills	Higher	528, WSW
I100	V4821	48 GERRY STREET	RCRA-NonGen, MANIFEST	Higher	530, SW
G101	LOT 11,TAXBLOCK 2250	88 WALTON STREET	E DESIGNATION	Higher	536, West
G102	LOT 10,TAXBLOCK 2250	86 WALTON STREET	E DESIGNATION	Higher	552, West
K103	I.S. 318	101 WALTON STREET	AST, HIST AST	Higher	566, West
K104	IS 318	101 WALTON ST	RCRA-NonGen, FINDS, MANIFEST	Higher	566, West
G105	LOT 4,TAXBLOCK 2250	161 HARRISON AVENUE	E DESIGNATION	Higher	578, WSW
G106	LOT 6,TAXBLOCK 2250	159 HARRISON AVENUE	E DESIGNATION	Higher	594, WSW
L107	LOT 3,TAXBLOCK 2272	207 HARRISON AVENUE	E DESIGNATION	Higher	612, SSW
L108	BARTLETT ST & HARRIS	BARTLETT STREET/HARR	NY Spills	Higher	612, SSW
G109	LOT 7,TAXBLOCK 2250	157 HARRISON AVENUE	E DESIGNATION	Higher	612, West
L110	HARRISON/YORKTOWN/AC	209 HARRISON AVENUE	DRYCLEANERS	Higher	613, SSW
L111	HARRISON DRY CLEANER	209 HARRISON AVENUE	RCRA-NonGen, FINDS, MANIFEST	Higher	613, SSW
M112	LOT 5,TAXBLOCK 2274	16 WHIPPLE STREET	E DESIGNATION	Higher	622, SSE
M113	LOT 45,TAXBLOCK 2272	11 WHIPPLE STREET	E DESIGNATION	Higher	630, SSE
K114	LOT 8,TAXBLOCK 2250	155 HARRISON AVENUE	E DESIGNATION	Higher	631, West
M115	LOT 46,TAXBLOCK 2272	9 WHIPPLE STREET	E DESIGNATION	Higher	637, SSE
M116	LOT 147,TAXBLOCK 227	5 WHIPPLE STREET	E DESIGNATION	Higher	652, SSE
L117	PFIZER INC	11 BARTLETT ST	CORRACTS, RCRA-LQG, RAATS, MANIFEST	Higher	683, SSW

MAPPED SITES SUMMARY

Target Property Address:  
78 THROOP AVENUE  
 BROOKLYN, NY 11206

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft.) DIRECTION
N118	CON EDISON - TM 135	THROOP AVE & LORIMER	RCRA-NonGen, MANIFEST	Higher	692, NNW
M119	CON EDISON	WHIPPLE ST & FLUSHIN	RCRA-CESQG	Higher	699, SSE
L120	PFIZER INC	11 BARTLETT STREET	MANIFEST	Higher	701, SSW
121	LINDSAY PARK HOUSING	31 LEONARD STREET	UST, HIST UST	Higher	707, NNE
N122	MTA NYCT - LORIMER S	LORIMER ST & BROADWA	RCRA-NonGen, FINDS, MANIFEST	Higher	711, NNW
N123	CON EDISON	LORIMER ST & BROADWA	RCRA-CESQG	Higher	711, NNW
L124	BP AMOCO SERVICE STA	655 FLUSHING AVENUE	UST, HIST UST	Higher	715, South
O125	CLOSED-LACKOF RECENT	113 THROOP AVE	LTANKS, HIST LTANKS	Higher	719, SE
O126	ALL SAINTS R C CHURC	115 THROOP AVE	UST, HIST UST	Higher	727, SE
P127	NYCT - BROADWAY-LORI	143 LORIMER ST	RCRA-SQG	Higher	780, WNW
P128	NYCT - BROADWAY-LORI	143 LORIMER ST	MANIFEST	Higher	780, WNW
Q129	255 WALLABOUT ST/PFI	255 WALLABOUT STREET	LTANKS, HIST LTANKS	Higher	790, WSW
Q130	PFIZER INC BROOKLYN	338 WALLABOUT ST	RCRA-NonGen, FINDS, MANIFEST	Higher	794, WSW
R131	HYDRO TECH	70 UNION AVENUE	MANIFEST	Higher	805, West
L132	PFIZER INC BROOKLYN	630 FLUSHING AVENUE	MANIFEST	Higher	829, SSW
L133	PFIZER INC. BROOKLYN	630 FLUSHING AVENUE	RCRA-LQG, FINDS, MANIFEST	Higher	829, SSW
L134	TEXECO STATION	630 FLUSHING AVE	LTANKS, HIST LTANKS, HIST UST, AST, HIST AST,...	Higher	829, SSW
L135	630 FLUSHING AVE	630 FLUSHING AVE	HIST LTANKS, CBS AST	Higher	829, SSW
L136	PFIZER INC	630 FLUSHING AVENUE	UST	Higher	829, SSW
N137	NYCTA - 22 THROOP AV	22 THROOP AVE	RCRA-NonGen, FINDS, MANIFEST	Higher	870, NW
O138	709-715 FLUSHING AVE	709-715 FLUSHING AVE	UST	Higher	904, SE
R139	CAS DEVELOPERS LLC	70 UNION AVE	RCRA-CESQG	Higher	908, West
R140	70 UNION AVENUE	70 UNION AVENUE	UST	Higher	908, West
141	PFIZER (ORGANICS/SUC	CENTRAL PORTION OF P	VCP	Lower	922, SSW
S142	CON ED-V5285	SEIGAL ST & MANHATTA	MANIFEST	Higher	924, NE
S143	CON ED - VS 5285	SEIGAL ST & MANHATTA	RCRA-NonGen, MANIFEST	Higher	925, NE
O144	EMS BATT 57 @ WOODHU	131 THROOP AVE	UST	Higher	956, SE
T145	COOK STREET HOUSING	40 VARET STREET	UST	Higher	1000, ENE
146	EMS @ WOODHULL HOSPI	720 FLUSHING AVE	UST, HIST UST	Higher	1005, SE
P147	GEORGE ROYH	116 UNION AVENUE	UST, HIST UST	Higher	1011, WNW
S148	67 MANHATTAN AVE	67 MANHATTAN AVE	MANIFEST, NY Spills, NY Hist Spills	Higher	1025, NE
S149	LINDSAY PARK HOUSING	67 MANHATTAN AVENUE	UST, HIST UST	Higher	1025, NE
S150	CON EDISON - 67 MANH	67 MANHATTAN AVE	RCRA-NonGen, FINDS	Higher	1029, NE
U151	KNIGHTS COLLISION EX	120 UNION AVE	RCRA-NonGen	Higher	1029, WNW
U152	KNIGHTS COLLISION &	120 UNION AVENUE	UST	Higher	1029, WNW
U153	KNIGHTS COLLISION EX	120 UNION AVE	MANIFEST, NY Spills	Higher	1029, WNW
Q154	TM2554	322 WALLABOUT STREET	RCRA-NonGen, MANIFEST	Lower	1033, WSW
T155	GRAYCO CORP.	29 COOK STREET	AST	Higher	1052, East
156	CON EDISON - VS 231	93 HOPKINS ST	RCRA-NonGen, MANIFEST	Higher	1065, SSW

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78 THROOP AVENUE  
 BROOKLYN, NY 11206

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft.) DIRECTION
<a href="#">U157</a>	CONSOLIDATED EDISON	MIDDLETON & HARRISON	MANIFEST	Higher	1088, WNW
<a href="#">V158</a>	CONSOLIDATED EDISON	MH611-104 FLUSHING A	MANIFEST	Lower	1117, SW
<a href="#">W159</a>	MARS CLEANERS	80 MANHATTAN AVE.	DRYCLEANERS	Higher	1123, NNE
<a href="#">W160</a>	MARS CLEANERS	80 MANHATTAN AVE	RCRA-CESQG, FINDS, MANIFEST	Higher	1123, NNE
<a href="#">U161</a>	ANTONIA GONSALIS	118-120 HARRISON AVE	UST, HIST UST	Higher	1126, WNW
<a href="#">V162</a>	V1821	2 GERRY STREET	RCRA-NonGen, MANIFEST	Lower	1127, SW
<a href="#">V163</a>	V2107	2-48 GERRY	RCRA-NonGen, MANIFEST	Lower	1127, SW
<a href="#">164</a>	LINDSAY PARK HOUSING	54 BOERUM ST	LTANKS	Higher	1139, North
<a href="#">T165</a>	35 GRAHM AVE.	35 GRAHM AVE.	LTANKS, HIST LTANKS	Higher	1146, East
<a href="#">T166</a>	CONSOLIDATED EDISON	64 GRAHAM AVE	MANIFEST	Higher	1151, ENE
<a href="#">T167</a>	CON EDISON - MANHOLE	64 GRAHAM AVE	RCRA-LQG	Higher	1151, ENE
<a href="#">X168</a>	ULTIMATE AUTO REPAIR	45 WALTON STREET	AST	Higher	1154, WSW
<a href="#">X169</a>	AVALON INDUSTRIES IN	95 LORIMER ST	RCRA-NonGen, FINDS	Higher	1166, West
<a href="#">Y170</a>	L.J.S.T. REALTY	45 COOK STREET	AST	Higher	1173, East
<a href="#">T171</a>	30 FAMILY APT HOUSE	77 VARET ST	AST, HIST AST	Higher	1185, ENE
<a href="#">Y172</a>	P S 257	60 COOK ST	AST, HIST AST, MANIFEST	Higher	1215, East
<a href="#">Y173</a>	NYC BD OF ED - PUBLI	60 COOK ST	RCRA-CESQG, FINDS	Higher	1215, East
<a href="#">V174</a>	MTA NYCT - FLUSHING	FLUSHING & UNION AVE	RCRA-CESQG, FINDS, MANIFEST, MANIFEST	Lower	1218, SW
<a href="#">Z175</a>	SERVICE STATION	152 UNION AVE	RCRA-NonGen, FINDS	Higher	1240, NW
<a href="#">Z176</a>	BP AMOCO SERVICE STA	152 UNION AVENUE	UST, HIST UST, NY Spills	Higher	1240, NW
<a href="#">177</a>	HELEN LEVINE	73 GRAHAM AVE	AST, HIST AST	Higher	1243, ENE
<a href="#">178</a>	NYNEX	18 BOERUM STREET	TANKS	Higher	1247, NNW
<a href="#">Z179</a>	LINCOLN PROPERTIES D	531 BROADWAY	UST	Higher	1263, NW
<a href="#">Z180</a>	DIME SAVINGS BANK. F	531 BROADWAY	HIST UST	Higher	1263, NW
<a href="#">Z181</a>	LINCOLN PROPERTIES D	531 BROADWAY	AST	Higher	1263, NW
<a href="#">X182</a>	429 MARCY AVENUE	429 MARCY AVENUE	UST	Lower	1265, WSW
<a href="#">X183</a>	CGS BUILDER	MARCY AVE	RCRA-NonGen, MANIFEST	Lower	1272, WSW
<a href="#">X184</a>	UNKNOWN RESIDENCE	420 MARCY AVE	LTANKS, MANIFEST, NY Spills	Lower	1275, WSW
<a href="#">X185</a>	M.B.M. MFG.	70 LORIMER STREET	UST	Higher	1283, West
<a href="#">186</a>	CONSTRUCTION SITE	5 WALTON AVE	LTANKS, HIST LTANKS	Lower	1548, WSW
<a href="#">AA187</a>	ENGINE CO. 216/LADD.	187 UNION AVENUE	LTANKS, NY Spills, NY Hist Spills	Higher	1633, NW
<a href="#">AA188</a>	187 UNION AVENUE / B	187 UNION AVE	HIST LTANKS	Higher	1633, NW
<a href="#">AB189</a>	24 HUMBOLDT ST	24 HUMBOLDT ST	LTANKS, NY Spills, NY Hist Spills	Higher	1655, East
<a href="#">AB190</a>	BUSHWICK HOUSES	24 HUMBOLDT STREET	HIST LTANKS, NY Hist Spills	Higher	1655, East
<a href="#">AC191</a>	306 RUTLEDGE ST.	306 RUTLEDGE ST.	HIST LTANKS	Higher	1707, NW
<a href="#">192</a>	APARTMENT BLDG	30 MONTROSE AV	HIST LTANKS, NY Spills	Higher	1720, NNW
<a href="#">AA193</a>	JOHNSON AVE. & BROAD	JOHNSON AVE AND BROA	LTANKS, HIST LTANKS	Higher	1729, NW
<a href="#">AD194</a>	UNITED STATES ARMORY	355 MARCY AVE	LTANKS, MANIFEST, NY Spills, NY Hist Spills	Higher	1771, West
<a href="#">AD195</a>	ARMY NAT'L GUARD BUI	355 MARCY AVENUE	HIST LTANKS, NY Hist Spills	Higher	1771, West

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78 THROOP AVENUE  
 BROOKLYN, NY 11206

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft.) DIRECTION
<a href="#">AE196</a>	BORINQUEN PLAZA	110 HUMBOLDT STREET	LTANKS, HIST LTANKS, UST, HIST UST	Higher	1791, ENE
<a href="#">AC197</a>	306 RUTLEDGE ST/BKLY	306 RUTLEDGE STREET	HIST LTANKS	Higher	1812, NW
<a href="#">AC198</a>	BROOKLYN NORTH 3+3A	306 RUTLEDGE ST	HIST LTANKS	Higher	1812, NW
<a href="#">AC199</a>	NYC DDC	306 RUTLEDGE ST	LTANKS, HIST LTANKS, NY Spills	Higher	1812, NW
<a href="#">AA200</a>	211 UNION AVE. DIESE	211 UNION AVE	HIST LTANKS	Higher	1837, NNW
<a href="#">AE201</a>	COOPER TANK & WELDIN	222-26 SIEGAL AVE	SWF/LF	Higher	1849, ENE
<a href="#">AE202</a>	BORINQUEN PLAZA	120 HUMBOLDT STREET	LTANKS, HIST LTANKS, UST, HIST UST	Higher	1850, NE
<a href="#">AA203</a>	90 PRECINCT NYPD -DD	209 UNION AVENUE	LTANKS, NY Spills, NY Hist Spills	Higher	1856, NNW
<a href="#">204</a>	SLATTERY J B & BROS	171-187 WALLABOUT ST	CERC-NFRAP, RCRA-NonGen, FINDS, MANIFEST	Lower	1872, WSW
<a href="#">205</a>		130 MOORE ST	LTANKS	Higher	1885, ENE
<a href="#">206</a>	209 UNION AVENUE	209 UNION AVE - 90TH	LTANKS, HIST LTANKS	Higher	1896, NNW
<a href="#">AE207</a>	VERINQUIN	130 HUMBOLT ST	HIST LTANKS	Higher	1914, NE
<a href="#">AE208</a>	BORINQUEN PLAZA	130 HUMBOLDT STREET	LTANKS, NY Spills	Higher	1914, NE
<a href="#">AE209</a>	BORINQUEN HOUSES	130 HUMBOLDT STREET	HIST LTANKS, UST, HIST UST	Higher	1914, NE
<a href="#">AE210</a>	BORINQUEN HOUSES	155 SIEGEL STREET	LTANKS, HIST LTANKS	Higher	1931, ENE
<a href="#">AE211</a>	BORINQUEN PLAZA	155 SIEGEL STREET	HIST LTANKS	Higher	1931, ENE
<a href="#">212</a>	NOSTRAND AVE & FLUSH	NOSTRAND AVE & FLUSH	LTANKS, HIST LTANKS	Lower	2040, WSW
<a href="#">AF213</a>	MARCIE HOUSES - BLDG	NOSTRAND AND PARK AV	LTANKS, HIST LTANKS	Higher	2162, SW
<a href="#">AF214</a>	MARCY HOUSES	603 PARK AVE	LTANKS, HIST LTANKS, HIST AST	Higher	2162, SW
<a href="#">AG215</a>	BORINQUEN HOUSES	330 BUSHWICK AVENUE	LTANKS, HIST LTANKS, UST, HIST UST, NY Spills	Higher	2229, ENE
<a href="#">AG216</a>	BORINQUEN HOUSES	300 BUSHWICK AVENUE	LTANKS, HIST LTANKS, UST, HIST UST	Higher	2265, ENE
<a href="#">AG217</a>	BORINQUEN HOUSE	300 BUSHWICK AVENUE	HIST LTANKS	Higher	2265, ENE
<a href="#">AG218</a>	BORINQUEN PLAZA	300 BUSHWICK AVENUE	HIST LTANKS	Higher	2265, ENE
<a href="#">AH219</a>	BORDEN CHEMICAL	56 NOSTRAND AVE.	HSWDS	Higher	2269, SW
<a href="#">AH220</a>	BORDEN CHEMICAL ADHE	56 NOSTRAND AVE	CERC-NFRAP, RCRA-NonGen, FINDS	Higher	2269, SW
<a href="#">221</a>	TOMPKINS HOUSES	921 MYRTLE AVENUE	HIST LTANKS	Higher	2312, South
<a href="#">222</a>	BUSHWICK	372 BUSHWICK AVE	HIST LTANKS	Higher	2318, ENE
<a href="#">223</a>	204 WALLABOUT /NEW E	204 WALLABOUT	LTANKS, HIST LTANKS	Lower	2319, WSW
<a href="#">224</a>	GONZALEZ RESIDENCE	29 BEAVER ST	LTANKS	Higher	2360, ESE
<a href="#">225</a>	30 WARSOFF PLACE/BKL	30 WARSOFF PLACE	LTANKS, HIST LTANKS	Higher	2365, WSW
<a href="#">226</a>	TECHTRONICS ECOLOGIC	8 WALWORTH ST	CORRACTS, RCRA-NonGen, FINDS, MANIFEST	Higher	2487, WSW
<a href="#">227</a>	BEDFORD AUTO SALES	984 MYRTLE AVE	SWF/LF	Higher	2524, SSE
<a href="#">228</a>	GULF STATION 70227 T	189 PENN. AVE	LTANKS	Higher	2529, WNW
<a href="#">AI229</a>	WILLIAMSBURGH HOUSES	125 STAGG WALK	HIST LTANKS, UST, HIST UST, AST, HIST AST	Higher	2544, North
<a href="#">AI230</a>	WILLIAMSBURGH HOUSES	211 STAGGWALK	HIST LTANKS	Higher	2544, North
<a href="#">AI231</a>	WILLIAMSBURG HOUSES	125 STAGG WALK	LTANKS, HIST LTANKS, NY Spills, NY Hist Spills	Higher	2544, North
<a href="#">232</a>	SKILLMAN STATION	SKILLMAN ST. FLUSHIN	Manufactured Gas Plants	Higher	3285, WSW
<a href="#">233</a>	NASSAU GAS	SKILLMAN AVE	Manufactured Gas Plants	Higher	3383, WSW
<a href="#">234</a>	RUTLEDGE STATION	RUTLEDGE ST. WYTHE A	Manufactured Gas Plants	Higher	3984, WSW

MAPPED SITES SUMMARY

Target Property Address:  
78 THROOP AVENUE  
BROOKLYN, NY 11206

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft.) DIRECTION
<a href="#">235</a>	SCHOLES ST. STATION	SCHOLES ST 7 BOGART	Manufactured Gas Plants	Higher	4219, NE
<a href="#">236</a>	KEAP ST. STATION	KEAP ST. WYTHE AVE.	Manufactured Gas Plants	Higher	4394, West
<a href="#">237</a>	BQE/ANSBACHER COLOR	MEEKER AVENUE	SHWS	Higher	4758, NNW

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP: A review of the CERC-NFRAP list, as provided by EDR, and dated 12/28/2011 has revealed that there are 2 CERC-NFRAP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>BORDEN CHEMICAL ADHE</i></b>	<b><i>56 NOSTRAND AVE</i></b>	<b><i>SW 1/4 - 1/2 (0.430 mi.)</i></b>	<b><i>AH220</i></b>	<b><i>49</i></b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>SLATTERY J B &amp; BROS</i></b>	<b><i>171-187 WALLABOUT ST</i></b>	<b><i>WSW 1/4 - 1/2 (0.355 mi.)</i></b>	<b><i>204</i></b>	<b><i>45</i></b>

### ***Federal RCRA CORRACTS facilities list***

CORRACTS: A review of the CORRACTS list, as provided by EDR, and dated 08/19/2011 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>PFIZER INC</i></b>	<b><i>11 BARTLETT ST</i></b>	<b><i>SSW 1/8 - 1/4 (0.129 mi.)</i></b>	<b><i>L117</i></b>	<b><i>27</i></b>
<b><i>TECHTRONICS ECOLOGIC</i></b>	<b><i>8 WALWORTH ST</i></b>	<b><i>WSW 1/4 - 1/2 (0.471 mi.)</i></b>	<b><i>226</i></b>	<b><i>50</i></b>

## EXECUTIVE SUMMARY

### ***Federal RCRA generators list***

RCRA-LQG: A review of the RCRA-LQG list, as provided by EDR, and dated 11/10/2011 has revealed that there are 4 RCRA-LQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CON EDISON - MANHOLE	662 BROADWAY	E 0 - 1/8 (0.098 mi.)	J94	23
<b>PFIZER INC</b>	<b>11 BARTLETT ST</b>	<b>SSW 1/8 - 1/4 (0.129 mi.)</b>	<b>L117</b>	<b>27</b>
<b>PFIZER INC. BROOKLYN</b>	<b>630 FLUSHING AVENUE</b>	<b>SSW 1/8 - 1/4 (0.157 mi.)</b>	<b>L133</b>	<b>30</b>
CON EDISON - MANHOLE	64 GRAHAM AVE	ENE 1/8 - 1/4 (0.218 mi.)	T167	37

RCRA-SQG: A review of the RCRA-SQG list, as provided by EDR, and dated 11/10/2011 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BAIS RUCHEL HIGH SCH	177 HARRISON AVE	SW 0 - 1/8 (0.095 mi.)	G88	22
<b>ARLINGTON PRESS-191</b>	<b>191 HARRISON AVE</b>	<b>SSW 0 - 1/8 (0.099 mi.)</b>	<b>I97</b>	<b>23</b>
NYCT - BROADWAY-LORI	143 LORIMER ST	WNW 1/8 - 1/4 (0.148 mi.)	P127	28

RCRA-CESQG: A review of the RCRA-CESQG list, as provided by EDR, and dated 11/10/2011 has revealed that there are 7 RCRA-CESQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>PFIZER INC BROOKLYN</b>	<b>73 GERRY ST</b>	<b>SSW 0 - 1/8 (0.057 mi.)</b>	<b>B46</b>	<b>14</b>
CON EDISON	WHIPPLE ST & FLUSHIN	SSE 1/8 - 1/4 (0.132 mi.)	M119	27
CON EDISON	LORIMER ST & BROADWA	NNW 1/8 - 1/4 (0.135 mi.)	N123	28
CAS DEVELOPERS LLC	70 UNION AVE	W 1/8 - 1/4 (0.172 mi.)	R139	31
<b>MARS CLEANERS</b>	<b>80 MANHATTAN AVE</b>	<b>NNE 1/8 - 1/4 (0.213 mi.)</b>	<b>W160</b>	<b>36</b>
<b>NYC BD OF ED - PUBLI</b>	<b>60 COOK ST</b>	<b>E 1/8 - 1/4 (0.230 mi.)</b>	<b>Y173</b>	<b>38</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MTA NYCT - FLUSHING</b>	<b>FLUSHING &amp; UNION AVE</b>	<b>SW 1/8 - 1/4 (0.231 mi.)</b>	<b>V174</b>	<b>38</b>

### ***State- and tribal - equivalent CERCLIS***

SHWS: A review of the SHWS list, as provided by EDR, and dated 02/22/2012 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BQE/ANSBACHER COLOR	MEEKER AVENUE	NNW 1/2 - 1 (0.901 mi.)	237	52
Class Code: Does not present a significant threat to the public health or the environment - action may be deferred.				

## EXECUTIVE SUMMARY

### **State and tribal landfill and/or solid waste disposal site lists**

SWF/LF: A review of the SWF/LF list, as provided by EDR, and dated 01/11/2012 has revealed that there are 2 SWF/LF sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COOPER TANK & WELDIN	222-26 SIEGAL AVE	ENE 1/4 - 1/2 (0.350 mi.)	AE201	44
BEDFORD AUTO SALES	984 MYRTLE AVE	SSE 1/4 - 1/2 (0.478 mi.)	227	50

### **State and tribal leaking storage tank lists**

LTANKS: A review of the LTANKS list, as provided by EDR, and dated 02/22/2012 has revealed that there are 30 LTANKS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>PFIZER INC/GERRY ST</b> Date Closed: 6/22/1992	<b>PFIZER INC/GERRY ST</b>	<b>SSW 0 - 1/8 (0.057 mi.)</b>	<b>B45</b>	<b>14</b>
<b>CLOSED-LACKOF RECENT</b> Date Closed: 3/4/2003	<b>113 THROOP AVE</b>	<b>SE 1/8 - 1/4 (0.136 mi.)</b>	<b>O125</b>	<b>28</b>
<b>255 WALLABOUT ST/PFI</b> Date Closed: 11/14/2006	<b>255 WALLABOUT STREET</b>	<b>WSW 1/8 - 1/4 (0.150 mi.)</b>	<b>Q129</b>	<b>29</b>
<b>TEXECO STATION</b> Date Closed: 3/31/2006	<b>630 FLUSHING AVE</b>	<b>SSW 1/8 - 1/4 (0.157 mi.)</b>	<b>L134</b>	<b>30</b>
LINDSAY PARK HOUSING Date Closed: 10/27/2010	54 BOERUM ST	N 1/8 - 1/4 (0.216 mi.)	164	36
<b>35 GRAHM AVE.</b> Date Closed: 5/19/1993	<b>35 GRAHM AVE.</b>	<b>E 1/8 - 1/4 (0.217 mi.)</b>	<b>T165</b>	<b>37</b>
<b>ENGINE CO. 216/LADD.</b> Date Closed: 1/13/2005	<b>187 UNION AVENUE</b>	<b>NW 1/4 - 1/2 (0.309 mi.)</b>	<b>AA187</b>	<b>41</b>
<b>24 HUMBOLDT ST</b> Date Closed: 11/2/2005	<b>24 HUMBOLDT ST</b>	<b>E 1/4 - 1/2 (0.313 mi.)</b>	<b>AB189</b>	<b>41</b>
<b>JOHNSON AVE. &amp; BROAD</b> Date Closed: 8/13/1993	<b>JOHNSON AVE AND BROA</b>	<b>NW 1/4 - 1/2 (0.327 mi.)</b>	<b>AA193</b>	<b>42</b>
<b>UNITED STATES ARMORY</b> Date Closed: 10/7/1992	<b>355 MARCY AVE</b>	<b>W 1/4 - 1/2 (0.335 mi.)</b>	<b>AD194</b>	<b>43</b>
<b>BORINQUEN PLAZA</b> Date Closed: 11/10/2010	<b>110 HUMBOLDT STREET</b>	<b>ENE 1/4 - 1/2 (0.339 mi.)</b>	<b>AE196</b>	<b>43</b>
<b>NYC DDC</b> Date Closed: 3/2/2005 Date Closed: 3/2/2005 <i>*Additional key fields are available in the Map Findings section</i>	<b>306 RUTLEDGE ST</b>	<b>NW 1/4 - 1/2 (0.343 mi.)</b>	<b>AC199</b>	<b>44</b>
<b>BORINQUEN PLAZA</b> Date Closed: 10/28/2010	<b>120 HUMBOLDT STREET</b>	<b>NE 1/4 - 1/2 (0.350 mi.)</b>	<b>AE202</b>	<b>44</b>
<b>90 PRECINCT NYPD -DD</b> Date Closed: 1/10/2005	<b>209 UNION AVENUE</b>	<b>NNW 1/4 - 1/2 (0.352 mi.)</b>	<b>AA203</b>	<b>45</b>
Not reported Date Closed: 7/2/2003	130 MOORE ST	ENE 1/4 - 1/2 (0.357 mi.)	205	45

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>209 UNION AVENUE</b> Date Closed: 5/18/1995	<b>209 UNION AVE - 90TH</b>	<b>NNW 1/4 - 1/2 (0.359 mi.)</b>	<b>206</b>	<b>45</b>
<b>BORINQUEN PLAZA</b> Date Closed: 1/8/2004 Date Closed: 1/8/2004	<b>130 HUMBOLDT STREET</b>	<b>NE 1/4 - 1/2 (0.363 mi.)</b>	<b>AE208</b>	<b>46</b>
<b>BORINQUEN HOUSES</b> Date Closed: 1/12/1998 Date Closed: 7/12/2010	<b>155 SIEGEL STREET</b>	<b>ENE 1/4 - 1/2 (0.366 mi.)</b>	<b>AE210</b>	<b>46</b>
<b>MARCIE HOUSES - BLDG</b> Date Closed: 12/9/2003	<b>NOSTRAND AND PARK AV</b>	<b>SW 1/4 - 1/2 (0.409 mi.)</b>	<b>AF213</b>	<b>47</b>
<b>MARCY HOUSES</b> Date Closed: 12/11/2007 Date Closed: 12/9/2005 <i>*Additional key fields are available in the Map Findings section</i>	<b>603 PARK AVE</b>	<b>SW 1/4 - 1/2 (0.409 mi.)</b>	<b>AF214</b>	<b>47</b>
<b>BORINQUEN HOUSES</b> Date Closed: 12/9/2005	<b>330 BUSHWICK AVENUE</b>	<b>ENE 1/4 - 1/2 (0.422 mi.)</b>	<b>AG215</b>	<b>48</b>
<b>BORINQUEN HOUSES</b> Date Closed: 2/2/1998 Date Closed: 1/13/1998 <i>*Additional key fields are available in the Map Findings section</i>	<b>300 BUSHWICK AVENUE</b>	<b>ENE 1/4 - 1/2 (0.429 mi.)</b>	<b>AG216</b>	<b>48</b>
<b>GONZALEZ RESIDENCE</b> Date Closed: 3/21/2006	<b>29 BEAVER ST</b>	<b>ESE 1/4 - 1/2 (0.447 mi.)</b>	<b>224</b>	<b>50</b>
<b>30 WARSOFF PLACE/BKL</b> Date Closed: 9/30/1992	<b>30 WARSOFF PLACE</b>	<b>WSW 1/4 - 1/2 (0.448 mi.)</b>	<b>225</b>	<b>50</b>
<b>GULF STATION 70227 T</b> <b>WILLIAMSBURG HOUSES</b> Date Closed: 3/29/1999 Date Closed: 1/8/2004 <i>*Additional key fields are available in the Map Findings section</i>	<b>189 PENN. AVE</b> <b>125 STAGG WALK</b>	<b>WNW 1/4 - 1/2 (0.479 mi.)</b> <b>N 1/4 - 1/2 (0.482 mi.)</b>	<b>228</b> <b>AI231</b>	<b>51</b> <b>51</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>UNKNOWN RESIDENCE</b> Date Closed: 11/4/2005	<b>420 MARCY AVE</b>	<b>WSW 1/8 - 1/4 (0.241 mi.)</b>	<b>X184</b>	<b>40</b>
<b>CONSTRUCTION SITE</b> Date Closed: 3/7/2003	<b>5 WALTON AVE</b>	<b>WSW 1/4 - 1/2 (0.293 mi.)</b>	<b>186</b>	<b>41</b>
<b>NOSTRAND AVE &amp; FLUSH</b> Date Closed: 11/8/1993	<b>NOSTRAND AVE &amp; FLUSH</b>	<b>WSW 1/4 - 1/2 (0.386 mi.)</b>	<b>212</b>	<b>47</b>
<b>204 WALLABOUT /NEW E</b> Date Closed: 3/5/2003	<b>204 WALLABOUT</b>	<b>WSW 1/4 - 1/2 (0.439 mi.)</b>	<b>223</b>	<b>50</b>

HIST LTANKS: A review of the HIST LTANKS list, as provided by EDR, and dated 01/01/2002 has revealed that there are 39 HIST LTANKS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>PFIZER INC/GERRY ST</b> Date Closed: 06/22/92	<b>PFIZER INC/GERRY ST</b>	<b>SSW 0 - 1/8 (0.057 mi.)</b>	<b>B45</b>	<b>14</b>

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CITGO/ 594 BROADWAY</b> Date Closed: / /	<b>594 BROADWAY</b>	<b>N 0 - 1/8 (0.088 mi.)</b>	<b>F80</b>	<b>20</b>
<b>CLOSED-LACKOF RECENT</b> Date Closed: / /	<b>113 THROOP AVE</b>	<b>SE 1/8 - 1/4 (0.136 mi.)</b>	<b>O125</b>	<b>28</b>
<b>255 WALLABOUT ST/PFI</b> Date Closed: / /	<b>255 WALLABOUT STREET</b>	<b>WSW 1/8 - 1/4 (0.150 mi.)</b>	<b>Q129</b>	<b>29</b>
<b>TEXECO STATION</b> Date Closed: / /	<b>630 FLUSHING AVE</b>	<b>SSW 1/8 - 1/4 (0.157 mi.)</b>	<b>L134</b>	<b>30</b>
<b>630 FLUSHING AVE</b> Date Closed: / /	<b>630 FLUSHING AVE</b>	<b>SSW 1/8 - 1/4 (0.157 mi.)</b>	<b>L135</b>	<b>30</b>
<b>35 GRAHM AVE.</b> Date Closed: 05/19/93	<b>35 GRAHM AVE.</b>	<b>E 1/8 - 1/4 (0.217 mi.)</b>	<b>T165</b>	<b>37</b>
187 UNION AVENUE / B Date Closed: / /	187 UNION AVE	NW 1/4 - 1/2 (0.309 mi.)	AA188	41
<b>BUSHWICK HOUSES</b> Date Closed: / /	<b>24 HUMBOLDT STREET</b>	<b>E 1/4 - 1/2 (0.313 mi.)</b>	<b>AB190</b>	<b>42</b>
306 RUTLEDGE ST. Date Closed: / /	306 RUTLEDGE ST.	NW 1/4 - 1/2 (0.323 mi.)	AC191	42
<b>APARTMENT BLDG</b> Date Closed: / /	<b>30 MONTROSE AV</b>	<b>NNW 1/4 - 1/2 (0.326 mi.)</b>	<b>192</b>	<b>42</b>
<b>JOHNSON AVE. &amp; BROAD</b> Date Closed: 08/13/93	<b>JOHNSON AVE AND BROA</b>	<b>NW 1/4 - 1/2 (0.327 mi.)</b>	<b>AA193</b>	<b>42</b>
<b>ARMY NAT'L GUARD BUI</b> Date Closed: 10/07/92	<b>355 MARCY AVENUE</b>	<b>W 1/4 - 1/2 (0.335 mi.)</b>	<b>AD195</b>	<b>43</b>
<b>BORINQUEN PLAZA</b> Date Closed: / /	<b>110 HUMBOLDT STREET</b>	<b>ENE 1/4 - 1/2 (0.339 mi.)</b>	<b>AE196</b>	<b>43</b>
306 RUTLEDGE ST/BKLY Date Closed: / /	306 RUTLEDGE STREET	NW 1/4 - 1/2 (0.343 mi.)	AC197	43
BROOKLYN NORTH 3+3A Date Closed: / /	306 RUTLEDGE ST	NW 1/4 - 1/2 (0.343 mi.)	AC198	44
<b>NYC DDC</b> Date Closed: / /	<b>306 RUTLEDGE ST</b>	<b>NW 1/4 - 1/2 (0.343 mi.)</b>	<b>AC199</b>	<b>44</b>
211 UNION AVE. DIESE Date Closed: / /	211 UNION AVE	NNW 1/4 - 1/2 (0.348 mi.)	AA200	44
<b>BORINQUEN PLAZA</b> Date Closed: / /	<b>120 HUMBOLDT STREET</b>	<b>NE 1/4 - 1/2 (0.350 mi.)</b>	<b>AE202</b>	<b>44</b>
<b>209 UNION AVENUE</b> Date Closed: 05/18/95	<b>209 UNION AVE - 90TH</b>	<b>NNW 1/4 - 1/2 (0.359 mi.)</b>	<b>206</b>	<b>45</b>
VERINQUIN Date Closed: / /	130 HUMBOLDT ST	NE 1/4 - 1/2 (0.363 mi.)	AE207	46
<b>BORINQUEN HOUSES</b> Date Closed: / /	<b>130 HUMBOLDT STREET</b>	<b>NE 1/4 - 1/2 (0.363 mi.)</b>	<b>AE209</b>	<b>46</b>
<b>BORINQUEN HOUSES</b> Date Closed: / /	<b>155 SIEGEL STREET</b>	<b>ENE 1/4 - 1/2 (0.366 mi.)</b>	<b>AE210</b>	<b>46</b>
BORINQUEN PLAZA Date Closed: 01/12/98	155 SIEGEL STREET	ENE 1/4 - 1/2 (0.366 mi.)	AE211	47

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MARCIE HOUSES - BLDG</b> Date Closed: / /	<b>NOSTRAND AND PARK AV</b>	<b>SW 1/4 - 1/2 (0.409 mi.)</b>	<b>AF213</b>	<b>47</b>
<b>MARCY HOUSES</b> Date Closed: / / Date Closed: / / <i>*Additional key fields are available in the Map Findings section</i>	<b>603 PARK AVE</b>	<b>SW 1/4 - 1/2 (0.409 mi.)</b>	<b>AF214</b>	<b>47</b>
<b>BORINQUEN HOUSES</b> Date Closed: / / Date Closed: / /	<b>330 BUSHWICK AVENUE</b>	<b>ENE 1/4 - 1/2 (0.422 mi.)</b>	<b>AG215</b>	<b>48</b>
<b>BORINQUEN HOUSES</b> Date Closed: 02/02/98	<b>300 BUSHWICK AVENUE</b>	<b>ENE 1/4 - 1/2 (0.429 mi.)</b>	<b>AG216</b>	<b>48</b>
<b>BORINQUEN HOUSE</b> Date Closed: / /	<b>300 BUSHWICK AVENUE</b>	<b>ENE 1/4 - 1/2 (0.429 mi.)</b>	<b>AG217</b>	<b>48</b>
<b>BORINQUEN PLAZA</b> Date Closed: 01/13/98	<b>300 BUSHWICK AVENUE</b>	<b>ENE 1/4 - 1/2 (0.429 mi.)</b>	<b>AG218</b>	<b>49</b>
<b>TOMPKINS HOUSES</b> Date Closed: / /	<b>921 MYRTLE AVENUE</b>	<b>S 1/4 - 1/2 (0.438 mi.)</b>	<b>221</b>	<b>49</b>
<b>BUSHWICK</b> Date Closed: / /	<b>372 BUSHWICK AVE</b>	<b>ENE 1/4 - 1/2 (0.439 mi.)</b>	<b>222</b>	<b>49</b>
<b>30 WARSOFF PLACE/BKL</b> Date Closed: 09/30/92	<b>30 WARSOFF PLACE</b>	<b>WSW 1/4 - 1/2 (0.448 mi.)</b>	<b>225</b>	<b>50</b>
<b>WILLIAMSBURGH HOUSES</b> Date Closed: / /	<b>125 STAGG WALK</b>	<b>N 1/4 - 1/2 (0.482 mi.)</b>	<b>AI229</b>	<b>51</b>
<b>WILLIAMSBURGH HOUSES</b> Date Closed: / /	<b>211 STAGGWALK</b>	<b>N 1/4 - 1/2 (0.482 mi.)</b>	<b>AI230</b>	<b>51</b>
<b>WILLIAMSBURG HOUSES</b> Date Closed: / / Date Closed: / / <i>*Additional key fields are available in the Map Findings section</i>	<b>125 STAGG WALK</b>	<b>N 1/4 - 1/2 (0.482 mi.)</b>	<b>AI231</b>	<b>51</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CONSTRUCTION SITE</b> Date Closed: / /	<b>5 WALTON AVE</b>	<b>WSW 1/4 - 1/2 (0.293 mi.)</b>	<b>186</b>	<b>41</b>
<b>NOSTRAND AVE &amp; FLUSH</b> Date Closed: 11/08/93	<b>NOSTRAND AVE &amp; FLUSH</b>	<b>WSW 1/4 - 1/2 (0.386 mi.)</b>	<b>212</b>	<b>47</b>
<b>204 WALLABOUT /NEW E</b> Date Closed: / /	<b>204 WALLABOUT</b>	<b>WSW 1/4 - 1/2 (0.439 mi.)</b>	<b>223</b>	<b>50</b>

### **State and tribal registered storage tank lists**

TANKS: A review of the TANKS list, as provided by EDR, and dated 01/03/2012 has revealed that there is 1 TANKS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NYNEX</b>	<b>18 BOERUM STREET</b>	<b>NNW 1/8 - 1/4 (0.236 mi.)</b>	<b>178</b>	<b>39</b>

## EXECUTIVE SUMMARY

UST: A review of the UST list, as provided by EDR, and dated 01/03/2012 has revealed that there are 23 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>PFIZER INC. BROOKLYN</b>	<b>80 GERRY STREET</b>	<b>SSW 0 - 1/8 (0.025 mi.)</b>	<b>B15</b>	<b>9</b>
<b>307 WALLABOUT STREE</b>	<b>307 WALLABOUT STREET</b>	<b>W 0 - 1/8 (0.032 mi.)</b>	<b>C26</b>	<b>11</b>
<b>THROOP AVENUE / BART</b>	<b>THROOP AVENUE / BART</b>	<b>SE 0 - 1/8 (0.064 mi.)</b>	<b>E57</b>	<b>16</b>
2001 HIGH TECH AUTO	30 BARTLETT STREET	S 0 - 1/8 (0.085 mi.)	H78	20
<b>SUSION DEVELPORS LLC</b>	<b>594 BROADWAY</b>	<b>N 0 - 1/8 (0.088 mi.)</b>	<b>F82</b>	<b>21</b>
HOO CORP	94 WALLTON STREET	WNW 0 - 1/8 (0.093 mi.)	K86	21
<b>LINDSAY PARK HOUSING</b>	<b>31 LEONARD STREET</b>	<b>NNE 1/8 - 1/4 (0.134 mi.)</b>	<b>121</b>	<b>27</b>
<b>BP AMOCO SERVICE STA</b>	<b>655 FLUSHING AVENUE</b>	<b>S 1/8 - 1/4 (0.135 mi.)</b>	<b>L124</b>	<b>28</b>
<b>ALL SAINTS R C CHURC</b>	<b>115 THROOP AVE</b>	<b>SE 1/8 - 1/4 (0.138 mi.)</b>	<b>O126</b>	<b>28</b>
PFIZER INC	630 FLUSHING AVENUE	SSW 1/8 - 1/4 (0.157 mi.)	L136	31
709-715 FLUSHING AVE	709-715 FLUSHING AVE	SE 1/8 - 1/4 (0.171 mi.)	O138	31
70 UNION AVENUE	70 UNION AVENUE	W 1/8 - 1/4 (0.172 mi.)	R140	32
EMS BATT 57 @ WOODHU	131 THROOP AVE	SE 1/8 - 1/4 (0.181 mi.)	O144	32
COOK STREET HOUSING	40 VARET STREET	ENE 1/8 - 1/4 (0.189 mi.)	T145	33
<b>EMS @ WOODHULL HOSPI</b>	<b>720 FLUSHING AVE</b>	<b>SE 1/8 - 1/4 (0.190 mi.)</b>	<b>146</b>	<b>33</b>
<b>GEORGE ROYH</b>	<b>116 UNION AVENUE</b>	<b>WNW 1/8 - 1/4 (0.191 mi.)</b>	<b>P147</b>	<b>33</b>
<b>LINDSAY PARK HOUSING</b>	<b>67 MANHATTAN AVENUE</b>	<b>NE 1/8 - 1/4 (0.194 mi.)</b>	<b>S149</b>	<b>34</b>
KNIGHTS COLLISION &	120 UNION AVENUE	WNW 1/8 - 1/4 (0.195 mi.)	U152	34
<b>ANTONIA GONSALIS</b>	<b>118-120 HARRISON AVE</b>	<b>WNW 1/8 - 1/4 (0.213 mi.)</b>	<b>U161</b>	<b>36</b>
<b>BP AMOCO SERVICE STA</b>	<b>152 UNION AVENUE</b>	<b>NW 1/8 - 1/4 (0.235 mi.)</b>	<b>Z176</b>	<b>39</b>
LINCOLN PROPERTIES D	531 BROADWAY	NW 1/8 - 1/4 (0.239 mi.)	Z179	39
M.B.M. MFG.	70 LORIMER STREET	W 1/8 - 1/4 (0.243 mi.)	X185	41
<b>Lower Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
429 MARCY AVENUE	429 MARCY AVENUE	WSW 1/8 - 1/4 (0.240 mi.)	X182	40

AST: A review of the AST list, as provided by EDR, and dated 01/03/2012 has revealed that there are 11 AST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MAGIC AUTO REPAIR SH	398 WALLABOUT STREET	WNW 0 - 1/8 (0.028 mi.)	A18	9
SOSA DIAGNOSTIC REPA	620 BROADWAY	NNE 0 - 1/8 (0.056 mi.)	D42	13
<b>I.S. 318</b>	<b>101 WALTON STREET</b>	<b>W 0 - 1/8 (0.107 mi.)</b>	<b>K103</b>	<b>24</b>
<b>TEXECO STATION</b>	<b>630 FLUSHING AVE</b>	<b>SSW 1/8 - 1/4 (0.157 mi.)</b>	<b>L134</b>	<b>30</b>
GRAYCO CORP.	29 COOK STREET	E 1/8 - 1/4 (0.199 mi.)	T155	35
ULTIMATE AUTO REPAIR	45 WALTON STREET	WSW 1/8 - 1/4 (0.219 mi.)	X168	37
L.J.S.T. REALTY	45 COOK STREET	E 1/8 - 1/4 (0.222 mi.)	Y170	38
<b>30 FAMILY APT HOUSE</b>	<b>77 VARET ST</b>	<b>ENE 1/8 - 1/4 (0.224 mi.)</b>	<b>T171</b>	<b>38</b>
<b>P S 257</b>	<b>60 COOK ST</b>	<b>E 1/8 - 1/4 (0.230 mi.)</b>	<b>Y172</b>	<b>38</b>
<b>HELEN LEVINE</b>	<b>73 GRAHAM AVE</b>	<b>ENE 1/8 - 1/4 (0.235 mi.)</b>	<b>177</b>	<b>39</b>
LINCOLN PROPERTIES D	531 BROADWAY	NW 1/8 - 1/4 (0.239 mi.)	Z181	40

## EXECUTIVE SUMMARY

CBS AST: A review of the CBS AST list, as provided by EDR, and dated 01/01/2002 has revealed that there is 1 CBS AST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
630 FLUSHING AVE	630 FLUSHING AVE	SSW 1/8 - 1/4 (0.157 mi.)	L135	30

CBS: A review of the CBS list, as provided by EDR, and dated 01/03/2012 has revealed that there is 1 CBS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TEXECO STATION	630 FLUSHING AVE	SSW 1/8 - 1/4 (0.157 mi.)	L134	30

### **State and tribal voluntary cleanup sites**

VCP: A review of the VCP list, as provided by EDR, and dated 02/22/2012 has revealed that there are 3 VCP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PFIZER SITES B AND D	59-71 GERRY ST. AND	SSW 0 - 1/8 (0.057 mi.)	B44	14
TEXECO STATION	630 FLUSHING AVE	SSW 1/8 - 1/4 (0.157 mi.)	L134	30
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PFIZER (ORGANICS/SUC)	CENTRAL PORTION OF P	SSW 1/8 - 1/4 (0.175 mi.)	141	32

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Lists of Registered Storage Tanks**

HIST UST: A review of the HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 14 HIST UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PFIZER INC. BROOKLYN	80 GERRY STREET	SSW 0 - 1/8 (0.025 mi.)	B15	9
307 WALLABOUT STREE	307 WALLABOUT STREET	W 0 - 1/8 (0.032 mi.)	C26	11
THROOP AVENUE / BART	THROOP AVENUE / BART	SE 0 - 1/8 (0.064 mi.)	E57	16
SUSION DEVELPORS LLC	594 BROADWAY	N 0 - 1/8 (0.088 mi.)	F82	21
LINDSAY PARK HOUSING	31 LEONARD STREET	NNE 1/8 - 1/4 (0.134 mi.)	121	27
BP AMOCO SERVICE STA	655 FLUSHING AVENUE	S 1/8 - 1/4 (0.135 mi.)	L124	28
ALL SAINTS R C CHURC	115 THROOP AVE	SE 1/8 - 1/4 (0.138 mi.)	O126	28
TEXECO STATION	630 FLUSHING AVE	SSW 1/8 - 1/4 (0.157 mi.)	L134	30
EMS @ WOODHULL HOSPI	720 FLUSHING AVE	SE 1/8 - 1/4 (0.190 mi.)	146	33
GEORGE ROYH	116 UNION AVENUE	WNW 1/8 - 1/4 (0.191 mi.)	P147	33
LINDSAY PARK HOUSING	67 MANHATTAN AVENUE	NE 1/8 - 1/4 (0.194 mi.)	S149	34
ANTONIA GONSALIS	118-120 HARRISON AVE	WNW 1/8 - 1/4 (0.213 mi.)	U161	36

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>BP AMOCO SERVICE STA</b> DIME SAVINGS BANK. F	<b>152 UNION AVENUE</b> 531 BROADWAY	<b>NW 1/8 - 1/4 (0.235 mi.)</b> NW 1/8 - 1/4 (0.239 mi.)	<b>Z176</b> Z180	<b>39</b> 40

### **Records of Emergency Release Reports**

NY Spills: A review of the NY Spills list, as provided by EDR, and dated 02/22/2012 has revealed that there are 15 NY Spills sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ON GROUND Date Closed: 6/26/2008	90-92 GERRY STREET	SSE 0 - 1/8 (0.014 mi.)	A7	8
<b>398 WALLABOUT STREET</b> Date Closed: 1/28/2005	<b>398 WALLABOUT ST</b>	<b>WNW 0 - 1/8 (0.028 mi.)</b>	<b>A19</b>	<b>10</b>
<b>EMPTY LOT</b> Date Closed: 2/2/2000 Date Closed: 11/14/2006	<b>73-87 GERRY STREET</b>	<b>SSW 0 - 1/8 (0.057 mi.)</b>	<b>B43</b>	<b>14</b>
DRUM RUN Date Closed: 5/5/2010	CORNER THROOP AVE AN	SE 0 - 1/8 (0.064 mi.)	E55	16
<b>BROADWAY TRIANGLE</b> Date Closed: 6/28/1999	<b>THROOP AVE / BARTLET</b>	<b>SE 0 - 1/8 (0.064 mi.)</b>	<b>E56</b>	<b>16</b>
<b>APARTMENT BUILDING</b> Date Closed: 12/14/2009	<b>613 BROADWAY</b>	<b>N 0 - 1/8 (0.067 mi.)</b>	<b>D62</b>	<b>17</b>
SERVICE BOX # 7967 Date Closed: 9/28/2005	285 WALLABOUT ST	WSW 0 - 1/8 (0.070 mi.)	G63	17
JUNKYARD Date Closed: 1/17/2002	650 BROADWAY	E 0 - 1/8 (0.078 mi.)	J71	19
<b>VAULT 3871</b> Date Closed: 4/3/2002	<b>MOORE AND LEONARD ST</b>	<b>NNE 0 - 1/8 (0.079 mi.)</b>	<b>D74</b>	<b>19</b>
<b>CITGO/ 594 BROADWAY</b> DRUM RUN Date Closed: 8/9/2007	<b>594 BROADWAY</b> BROADWAY & WALTON ST	<b>N 0 - 1/8 (0.088 mi.)</b> N 0 - 1/8 (0.090 mi.)	<b>F80</b> F84	<b>20</b> 21
MANHOLE 1144 Date Closed: 7/18/2003	GERRY ST/HARRISON AV	SW 0 - 1/8 (0.097 mi.)	I92	22
<b>29 BARTLETT STREET</b> Date Closed: 8/24/1995	<b>29 BARTLETT STREET</b>	<b>S 0 - 1/8 (0.100 mi.)</b>	<b>H98</b>	<b>23</b>
<b>MANHOLE 468</b> Date Closed: 10/25/2001	<b>WALLABOUT ST/HARRISO</b>	<b>WSW 0 - 1/8 (0.100 mi.)</b>	<b>G99</b>	<b>24</b>
BARTLETT ST & HARRIS Date Closed: 5/16/2003	BARTLETT STREET/HARR	SSW 0 - 1/8 (0.116 mi.)	L108	25

## EXECUTIVE SUMMARY

NY Hist Spills: A review of the NY Hist Spills list, as provided by EDR, and dated 01/01/2002 has revealed that there are 9 NY Hist Spills sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>398 WALLABOUT STREET</b>	<b>398 WALLABOUT ST</b>	<b>WNW 0 - 1/8 (0.028 mi.)</b>	<b>A19</b>	<b>10</b>
<b>EMPTY LOT</b>	<b>73-87 GERRY STREET</b>	<b>SSW 0 - 1/8 (0.057 mi.)</b>	<b>B43</b>	<b>14</b>
EMPTY LOT	73-87 GERRY STREET	SSW 0 - 1/8 (0.057 mi.)	B48	15
<b>BROADWAY TRIANGLE</b>	<b>THROOP AVE / BARTLET</b>	<b>SE 0 - 1/8 (0.064 mi.)</b>	<b>E56</b>	<b>16</b>
<b>APARTMENT BUILDING</b>	<b>613 BROADWAY</b>	<b>N 0 - 1/8 (0.067 mi.)</b>	<b>D62</b>	<b>17</b>
SERVICE BOX 15648	650 BROADWAY	E 0 - 1/8 (0.078 mi.)	J70	19
<b>VAULT 3871</b>	<b>MOORE AND LEONARD ST</b>	<b>NNE 0 - 1/8 (0.079 mi.)</b>	<b>D74</b>	<b>19</b>
<b>29 BARTLETT STREET</b>	<b>29 BARTLETT STREET</b>	<b>S 0 - 1/8 (0.100 mi.)</b>	<b>H98</b>	<b>23</b>
<b>MANHOLE 468</b>	<b>WALLABOUT ST/HARRISO</b>	<b>WSW 0 - 1/8 (0.100 mi.)</b>	<b>G99</b>	<b>24</b>

### **Other Ascertainable Records**

RCRA-NonGen: A review of the RCRA-NonGen list, as provided by EDR, and dated 11/10/2011 has revealed that there are 20 RCRA-NonGen sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>VARTEX INSTRUMENT CO</b>	<b>311 WALLABOUT ST</b>	<b>WNW 0 - 1/8 (0.030 mi.)</b>	<b>A22</b>	<b>10</b>
<b>RICHARDS AUTO REPAIR</b>	<b>594 BROADWAY</b>	<b>N 0 - 1/8 (0.088 mi.)</b>	<b>F81</b>	<b>21</b>
<b>CON ED - MH 485</b>	<b>GERRY ST &amp; HARRISON</b>	<b>SW 0 - 1/8 (0.097 mi.)</b>	<b>I91</b>	<b>22</b>
<b>V4821</b>	<b>48 GERRY STREET</b>	<b>SW 0 - 1/8 (0.100 mi.)</b>	<b>I100</b>	<b>24</b>
<b>IS 318</b>	<b>101 WALTON ST</b>	<b>W 0 - 1/8 (0.107 mi.)</b>	<b>K104</b>	<b>24</b>
<b>HARRISON DRY CLEANER</b>	<b>209 HARRISON AVENUE</b>	<b>SSW 0 - 1/8 (0.116 mi.)</b>	<b>L111</b>	<b>26</b>
<b>CON EDISON - TM 135</b>	<b>THROOP AVE &amp; LORIMER</b>	<b>NNW 1/8 - 1/4 (0.131 mi.)</b>	<b>N118</b>	<b>27</b>
<b>MTA NYCT - LORIMER S</b>	<b>LORIMER ST &amp; BROADWA</b>	<b>NNW 1/8 - 1/4 (0.135 mi.)</b>	<b>N122</b>	<b>27</b>
<b>PFIZER INC BROOKLYN</b>	<b>338 WALLABOUT ST</b>	<b>WSW 1/8 - 1/4 (0.150 mi.)</b>	<b>Q130</b>	<b>29</b>
<b>NYCTA - 22 THROOP AV</b>	<b>22 THROOP AVE</b>	<b>NW 1/8 - 1/4 (0.165 mi.)</b>	<b>N137</b>	<b>31</b>
<b>CON ED - VS 5285</b>	<b>SEIGAL ST &amp; MANHATTA</b>	<b>NE 1/8 - 1/4 (0.175 mi.)</b>	<b>S143</b>	<b>32</b>
<b>CON EDISON - 67 MANH</b>	<b>67 MANHATTAN AVE</b>	<b>NE 1/8 - 1/4 (0.195 mi.)</b>	<b>S150</b>	<b>34</b>
<b>KNIGHTS COLLISION EX</b>	<b>120 UNION AVE</b>	<b>WNW 1/8 - 1/4 (0.195 mi.)</b>	<b>U151</b>	<b>34</b>
<b>CON EDISON - VS 231</b>	<b>93 HOPKINS ST</b>	<b>SSW 1/8 - 1/4 (0.202 mi.)</b>	<b>156</b>	<b>35</b>
<b>AVALON INDUSTRIES IN</b>	<b>95 LORIMER ST</b>	<b>W 1/8 - 1/4 (0.221 mi.)</b>	<b>X169</b>	<b>37</b>
<b>SERVICE STATION</b>	<b>152 UNION AVE</b>	<b>NW 1/8 - 1/4 (0.235 mi.)</b>	<b>Z175</b>	<b>38</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>TM2554</b>	<b>322 WALLABOUT STREET</b>	<b>WSW 1/8 - 1/4 (0.196 mi.)</b>	<b>Q154</b>	<b>35</b>
<b>V1821</b>	<b>2 GERRY STREET</b>	<b>SW 1/8 - 1/4 (0.213 mi.)</b>	<b>V162</b>	<b>36</b>
<b>V2107</b>	<b>2-48 GERRY</b>	<b>SW 1/8 - 1/4 (0.213 mi.)</b>	<b>V163</b>	<b>36</b>
<b>CGS BUILDER</b>	<b>MARCY AVE</b>	<b>WSW 1/8 - 1/4 (0.241 mi.)</b>	<b>X183</b>	<b>40</b>

## EXECUTIVE SUMMARY

HSWDS: A review of the HSWDS list, as provided by EDR, and dated 01/01/2003 has revealed that there is 1 HSWDS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BORDEN CHEMICAL	56 NOSTRAND AVE.	SW 1/4 - 1/2 (0.430 mi.)	AH219	49

MANIFEST: A review of the MANIFEST list, as provided by EDR, and dated 01/10/2012 has revealed that there are 32 MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>VARTEX INSTRUMENT CO</b>	<b>311 WALLABOUT ST</b>	<b>WNW 0 - 1/8 (0.030 mi.)</b>	<b>A22</b>	<b>10</b>
<b>PFIZER INC BROOKLYN</b>	<b>73 GERRY ST</b>	<b>SSW 0 - 1/8 (0.057 mi.)</b>	<b>B46</b>	<b>14</b>
BAIS RUCHEL HIGH SCH	177 HARRISON AVE	SW 0 - 1/8 (0.095 mi.)	G89	22
<b>CON ED - MH 485</b>	<b>GERRY ST &amp; HARRISON</b>	<b>SW 0 - 1/8 (0.097 mi.)</b>	<b>I91</b>	<b>22</b>
CONSOLIDATED EDISON	662 BROADWAY	E 0 - 1/8 (0.098 mi.)	J93	23
<b>ARLINGTON PRESS-191</b>	<b>191 HARRISON AVE</b>	<b>SSW 0 - 1/8 (0.099 mi.)</b>	<b>I97</b>	<b>23</b>
<b>V4821</b>	<b>48 GERRY STREET</b>	<b>SW 0 - 1/8 (0.100 mi.)</b>	<b>I100</b>	<b>24</b>
<b>IS 318</b>	<b>101 WALTON ST</b>	<b>W 0 - 1/8 (0.107 mi.)</b>	<b>K104</b>	<b>24</b>
<b>HARRISON DRY CLEANER</b>	<b>209 HARRISON AVENUE</b>	<b>SSW 0 - 1/8 (0.116 mi.)</b>	<b>L111</b>	<b>26</b>
<b>PFIZER INC</b>	<b>11 BARTLETT ST</b>	<b>SSW 1/8 - 1/4 (0.129 mi.)</b>	<b>L117</b>	<b>27</b>
<b>CON EDISON - TM 135</b>	<b>THROOP AVE &amp; LORIMER</b>	<b>NNW 1/8 - 1/4 (0.131 mi.)</b>	<b>N118</b>	<b>27</b>
<b>MTA NYCT - LORIMER S</b>	<b>LORIMER ST &amp; BROADWA</b>	<b>NNW 1/8 - 1/4 (0.135 mi.)</b>	<b>N122</b>	<b>27</b>
NYCT - BROADWAY-LORI	143 LORIMER ST	WNW 1/8 - 1/4 (0.148 mi.)	P128	29
<b>PFIZER INC BROOKLYN</b>	<b>338 WALLABOUT ST</b>	<b>WSW 1/8 - 1/4 (0.150 mi.)</b>	<b>Q130</b>	<b>29</b>
HYDRO TECH	70 UNION AVENUE	W 1/8 - 1/4 (0.152 mi.)	R131	29
<b>TEXECO STATION</b>	<b>630 FLUSHING AVE</b>	<b>SSW 1/8 - 1/4 (0.157 mi.)</b>	<b>L134</b>	<b>30</b>
<b>NYCTA - 22 THROOP AV</b>	<b>22 THROOP AVE</b>	<b>NW 1/8 - 1/4 (0.165 mi.)</b>	<b>N137</b>	<b>31</b>
CON ED-V5285	SEIGAL ST & MANHATTA	NE 1/8 - 1/4 (0.175 mi.)	S142	32
<b>CON ED - VS 5285</b>	<b>SEIGAL ST &amp; MANHATTA</b>	<b>NE 1/8 - 1/4 (0.175 mi.)</b>	<b>S143</b>	<b>32</b>
<b>67 MANHATTAN AVE</b>	<b>67 MANHATTAN AVE</b>	<b>NE 1/8 - 1/4 (0.194 mi.)</b>	<b>S148</b>	<b>33</b>
<b>KNIGHTS COLLISION EX</b>	<b>120 UNION AVE</b>	<b>WNW 1/8 - 1/4 (0.195 mi.)</b>	<b>U153</b>	<b>34</b>
<b>CON EDISON - VS 231</b>	<b>93 HOPKINS ST</b>	<b>SSW 1/8 - 1/4 (0.202 mi.)</b>	<b>156</b>	<b>35</b>
CONSOLIDATED EDISON	MIDDLETON & HARRISON	WNW 1/8 - 1/4 (0.206 mi.)	U157	35
<b>MARS CLEANERS</b>	<b>80 MANHATTAN AVE</b>	<b>NNE 1/8 - 1/4 (0.213 mi.)</b>	<b>W160</b>	<b>36</b>
CONSOLIDATED EDISON	64 GRAHAM AVE	ENE 1/8 - 1/4 (0.218 mi.)	T166	37
<b>P S 257</b>	<b>60 COOK ST</b>	<b>E 1/8 - 1/4 (0.230 mi.)</b>	<b>Y172</b>	<b>38</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>TM2554</b>	<b>322 WALLABOUT STREET</b>	<b>WSW 1/8 - 1/4 (0.196 mi.)</b>	<b>Q154</b>	<b>35</b>
CONSOLIDATED EDISON	MH611-104 FLUSHING A	SW 1/8 - 1/4 (0.212 mi.)	V158	35
<b>V1821</b>	<b>2 GERRY STREET</b>	<b>SW 1/8 - 1/4 (0.213 mi.)</b>	<b>V162</b>	<b>36</b>
<b>V2107</b>	<b>2-48 GERRY</b>	<b>SW 1/8 - 1/4 (0.213 mi.)</b>	<b>V163</b>	<b>36</b>
<b>MTA NYCT - FLUSHING</b>	<b>FLUSHING &amp; UNION AVE</b>	<b>SW 1/8 - 1/4 (0.231 mi.)</b>	<b>V174</b>	<b>38</b>
<b>UNKNOWN RESIDENCE</b>	<b>420 MARCY AVE</b>	<b>WSW 1/8 - 1/4 (0.241 mi.)</b>	<b>X184</b>	<b>40</b>

## EXECUTIVE SUMMARY

DRYCLEANERS: A review of the DRYCLEANERS list, as provided by EDR, and dated 12/20/2011 has revealed that there are 2 DRYCLEANERS sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HARRISON/YORKTOWN/AC	209 HARRISON AVENUE	SSW 0 - 1/8 (0.116 mi.)	L110	25
MARS CLEANERS	80 MANHATTAN AVE.	NNE 1/8 - 1/4 (0.213 mi.)	W159	35

E DESIGNATION: A review of the E DESIGNATION list, as provided by EDR, and dated 10/05/2011 has revealed that there are 75 E DESIGNATION sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LOT 31,TAXBLOCK 2266	76 THROOP AVENUE	NE 0 - 1/8 (0.005 mi.)	A1	7
LOT 30,TAXBLOCK 2266	74 THROOP AVENUE	NNE 0 - 1/8 (0.008 mi.)	A2	7
LOT 36,TAXBLOCK 2266	99 GERRY STREET	SSE 0 - 1/8 (0.012 mi.)	A3	7
LOT 34,TAXBLOCK 2266	82 THROOP AVENUE	E 0 - 1/8 (0.012 mi.)	A4	7
LOT 37,TAXBLOCK 2266	97 GERRY STREET	S 0 - 1/8 (0.013 mi.)	A5	7
LOT 38,TAXBLOCK 2266	95 GERRY STREET	S 0 - 1/8 (0.013 mi.)	A6	7
LOT 25,TAXBLOCK 2269	90 GERRY STREET	SSE 0 - 1/8 (0.014 mi.)	A8	8
LOT 24,TAXBLOCK 2269	88 GERRY STREET	S 0 - 1/8 (0.014 mi.)	A9	8
LOT 29,TAXBLOCK 2266	72 THROOP AVENUE	N 0 - 1/8 (0.015 mi.)	A10	8
LOT 27,TAXBLOCK 2269	84 THROOP AVENUE	ESE 0 - 1/8 (0.015 mi.)	A11	8
LOT 23,TAXBLOCK 2269	86 GERRY STREET	S 0 - 1/8 (0.016 mi.)	A12	8
LOT 39,TAXBLOCK 2266	93 GERRY STREET	S 0 - 1/8 (0.016 mi.)	A13	9
LOT 40,TAXBLOCK 2266	91 GERRY STREET	SSW 0 - 1/8 (0.020 mi.)	B14	9
LOT 29,TAXBLOCK 2269	88 THROOP AVENUE	ESE 0 - 1/8 (0.027 mi.)	A16	9
LOT 25,TAXBLOCK 2266	398 WALLABOUT STREET	WNW 0 - 1/8 (0.028 mi.)	A17	9
LOT 23,TAXBLOCK 2266	394 WALLABOUT STREET	WNW 0 - 1/8 (0.029 mi.)	A20	10
LOT 19,TAXBLOCK 2269	78 GERRY STREET	SSW 0 - 1/8 (0.029 mi.)	B21	10
LOT 37,TAXBLOCK 2250	311 WALLABOUT STREET	WNW 0 - 1/8 (0.030 mi.)	A23	10
LOT 36,TAXBLOCK 2250	313 WALLABOUT STREET	WNW 0 - 1/8 (0.030 mi.)	A24	10
LOT 33,TAXBLOCK 2250	66 THROOP AVENUE	NNW 0 - 1/8 (0.031 mi.)	A25	11
<b>307 WALLABOUT STREE</b>	<b>307 WALLABOUT STREET</b>	<b>W 0 - 1/8 (0.032 mi.)</b>	<b>C26</b>	<b>11</b>
LOT 21,TAXBLOCK 2266	390 WALLABOUT STREET	W 0 - 1/8 (0.032 mi.)	B27	11
LOT 30,TAXBLOCK 2269	90 THROOP AVENUE	ESE 0 - 1/8 (0.033 mi.)	A28	11
LOT 18,TAXBLOCK 2269	76 GERRY STREET	SSW 0 - 1/8 (0.033 mi.)	B29	11
LOT 40,TAXBLOCK 2250	305 WALLABOUT STREET	W 0 - 1/8 (0.034 mi.)	C30	11
LOT 20,TAXBLOCK 2266	388 WALLABOUT STREET	W 0 - 1/8 (0.035 mi.)	B31	12
LOT 19,TAXBLOCK 2266	386 WALLABOUT STREET	W 0 - 1/8 (0.037 mi.)	B32	12
LOT 17,TAXBLOCK 2269	74 GERRY STREET	SSW 0 - 1/8 (0.038 mi.)	B33	12
LOT 18,TAXBLOCK 2266	384 WALLABOUT STREET	W 0 - 1/8 (0.041 mi.)	C34	12
LOT 17,TAXBLOCK 2266	382 WALLABOUT STREET	W 0 - 1/8 (0.045 mi.)	C35	12
LOT 32,TAXBLOCK 2250	62 THROOP AVENUE	NNW 0 - 1/8 (0.045 mi.)	A36	12
LOT 16,TAXBLOCK 2266	380 WALLABOUT STREET	WSW 0 - 1/8 (0.048 mi.)	C37	13
LOT 22,TAXBLOCK 2266	392 WALLABOUT STREET	NNE 0 - 1/8 (0.049 mi.)	A38	13
LOT 41,TAXBLOCK 2250	295 WALLABOUT STREET	WSW 0 - 1/8 (0.049 mi.)	C39	13
LOT 15,TAXBLOCK 2266	378 WALLABOUT STREET	WSW 0 - 1/8 (0.052 mi.)	C40	13
LOT 14,TAXBLOCK 2266	376 WALLABOUT STREET	WSW 0 - 1/8 (0.056 mi.)	C41	13
LOT 46,TAXBLOCK 2266	75 GERRY STREET	SSW 0 - 1/8 (0.057 mi.)	B47	14
LOT 46,TAXBLOCK 2250	291 WALLABOUT STREET	WSW 0 - 1/8 (0.057 mi.)	C49	15
LOT 48,TAXBLOCK 2250	289 WALLABOUT STREET	WSW 0 - 1/8 (0.061 mi.)	C50	15
LOT 33,TAXBLOCK 2269	69 BARTLETT STREET	SE 0 - 1/8 (0.063 mi.)	E51	15
LOT 35,TAXBLOCK 2269	65 BARTLETT STREET	SE 0 - 1/8 (0.063 mi.)	E52	15
LOT 36,TAXBLOCK 2269	63 BARTLETT STREET	SE 0 - 1/8 (0.063 mi.)	E53	15

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LOT 39,TAXBLOCK 2269	57 BARTLETT STREET	SSE 0 - 1/8 (0.064 mi.)	E54	16
LOT 40,TAXBLOCK 2269	55 BARTLETT STREET	SSE 0 - 1/8 (0.064 mi.)	E58	16
LOT 29,TAXBLOCK 2250	56 THROOP AVENUE	NNW 0 - 1/8 (0.065 mi.)	F59	17
LOT 41,TAXBLOCK 2269	53 BARTLETT STREET	SSE 0 - 1/8 (0.065 mi.)	E60	17
LOT 42,TAXBLOCK 2269	51 BARTLETT STREET	SSE 0 - 1/8 (0.067 mi.)	E61	17
LOT 43,TAXBLOCK 2269	47 BARTLETT STREET	S 0 - 1/8 (0.070 mi.)	H64	18
LOT 28,TAXBLOCK 2250	54 THROOP AVENUE	NNW 0 - 1/8 (0.072 mi.)	F65	18
LOT 1,TAXBLOCK 2269	58 GERRY STREET	SW 0 - 1/8 (0.075 mi.)	I66	18
LOT 45,TAXBLOCK 2269	43 BARTLETT STREET	S 0 - 1/8 (0.076 mi.)	H67	18
LOT 11,TAXBLOCK 2272	36 BARTLETT STREET	S 0 - 1/8 (0.077 mi.)	H68	18
LOT 9,TAXBLOCK 2266	366 WALLABOUT STREET	WSW 0 - 1/8 (0.078 mi.)	G69	18
LOT 47,TAXBLOCK 2269	41 BARTLETT STREET	S 0 - 1/8 (0.078 mi.)	H72	19
LOT 27,TAXBLOCK 2250	52 THROOP AVENUE	NNW 0 - 1/8 (0.079 mi.)	F73	19
LOT 25,TAXBLOCK 2250	116 WALTON STREET	NW 0 - 1/8 (0.079 mi.)	F75	20
LOT 48,TAXBLOCK 2269	39 BARTLETT STREET	S 0 - 1/8 (0.082 mi.)	H76	20
LOT 49,TAXBLOCK 2269	37 BARTLETT STREET	S 0 - 1/8 (0.085 mi.)	H77	20
LOT 9,TAXBLOCK 2272	30 BARTLETT STREET	S 0 - 1/8 (0.085 mi.)	H79	20
LOT 50,TAXBLOCK 2269	35 BARTLETT STREET	S 0 - 1/8 (0.088 mi.)	H83	21
LOT 14,TAXBLOCK 2250	94 WALTON STREET	WNW 0 - 1/8 (0.093 mi.)	K85	21
LOT 6,TAXBLOCK 2272	24 BARTLETT STREET	S 0 - 1/8 (0.095 mi.)	H87	22
LOT 52,TAXBLOCK 2269	31 BARTLETT STREET	S 0 - 1/8 (0.096 mi.)	H90	22
LOT 12,TAXBLOCK 2250	90 WALTON STREET	W 0 - 1/8 (0.099 mi.)	G95	23
LOT 11,TAXBLOCK 2250	88 WALTON STREET	W 0 - 1/8 (0.102 mi.)	G101	24
LOT 10,TAXBLOCK 2250	86 WALTON STREET	W 0 - 1/8 (0.105 mi.)	G102	24
LOT 4,TAXBLOCK 2250	161 HARRISON AVENUE	WSW 0 - 1/8 (0.109 mi.)	G105	25
LOT 6,TAXBLOCK 2250	159 HARRISON AVENUE	WSW 0 - 1/8 (0.112 mi.)	G106	25
LOT 3,TAXBLOCK 2272	207 HARRISON AVENUE	SSW 0 - 1/8 (0.116 mi.)	L107	25
LOT 7,TAXBLOCK 2250	157 HARRISON AVENUE	W 0 - 1/8 (0.116 mi.)	G109	25
LOT 5,TAXBLOCK 2274	16 WHIPPLE STREET	SSE 0 - 1/8 (0.118 mi.)	M112	26
LOT 45,TAXBLOCK 2272	11 WHIPPLE STREET	SSE 0 - 1/8 (0.119 mi.)	M113	26
LOT 8,TAXBLOCK 2250	155 HARRISON AVENUE	W 0 - 1/8 (0.120 mi.)	K114	26
LOT 46,TAXBLOCK 2272	9 WHIPPLE STREET	SSE 0 - 1/8 (0.121 mi.)	M115	26
LOT 147,TAXBLOCK 227	5 WHIPPLE STREET	SSE 0 - 1/8 (0.123 mi.)	M116	26

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

Manufactured Gas Plants: A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there are 5 Manufactured Gas Plants sites within approximately 1 mile of the target property.

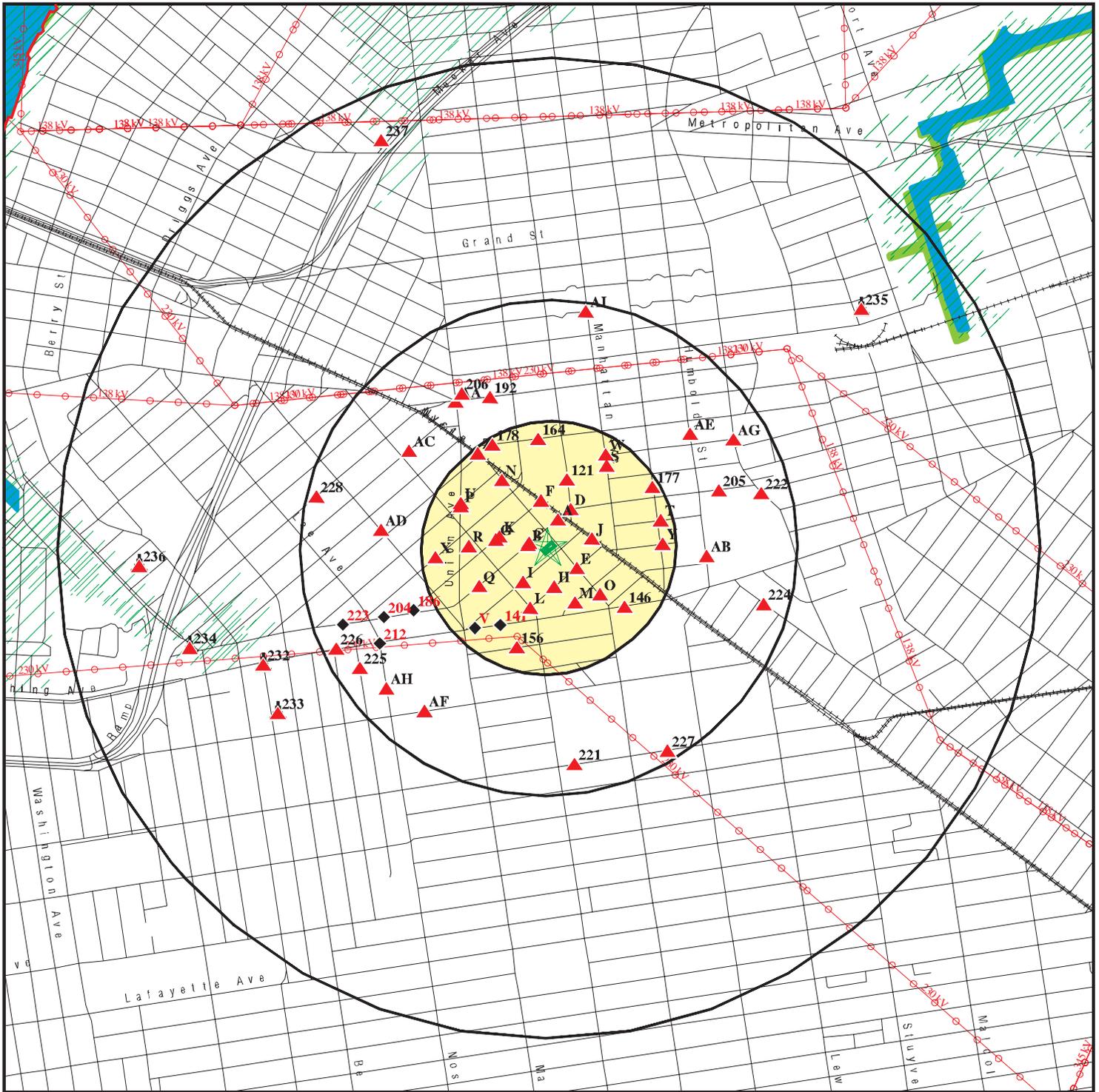
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SKILLMAN STATION	SKILLMAN ST. FLUSHIN	WSW 1/2 - 1 (0.622 mi.)	232	52
NASSAU GAS	SKILLMAN AVE	WSW 1/2 - 1 (0.641 mi.)	233	52
RUTLEDGE STATION	RUTLEDGE ST. WYTHE A	WSW 1/2 - 1 (0.755 mi.)	234	52
SCHOLES ST. STATION	SCHOLES ST 7 BOGART	NE 1/2 - 1 (0.799 mi.)	235	52
KEAP ST. STATION	KEAP ST. WYTHE AVE.	W 1/2 - 1 (0.832 mi.)	236	52

Count: 20 records.

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BROOKLYN	1001113446	NYCTA - 977 BROADWAY	977 BROADWAY EMPTY LOT CLEANUP	11206	FINDS,RCRA-NLR,MANIFEST
BROOKLYN	1003863849	BKLYN UNION GAS /NASSAU WORKS	KENT AVE/CROS ST/WALLABOUT CNL	11237	CERCLIS-NFRAP
BROOKLYN	1007205494	BELL ATLANTIC-NY	LYNCH ST BET HARRISON	00000	RCRA-NLR
NEW YORK	1007206799	CONSOLIDATED EDISON	V4617-DEKALB & THROOP	10010	RCRA-NLR,MANIFEST
BROOKLYN	1007207445	CONSOLIDATED EDISON	V3431-BROADWAY & BEDFORD		RCRA-NLR,MANIFEST
BROOKLYN	1007208397	CONSOLIDATED EDISON	MH38210-KINGS HWY & W 7TH ST		RCRA-NLR,MANIFEST
BROOKLYN	1007444974	FOUNTAIN AVENUE LANDFILL	OFF SHORE PARKWAY		ODI
BROOKLYN	1009231942	NYNEX	CORNER BWY/E WALTON ST	11206	MANIFEST
BROOKLYN	1009234540	NYNEX	KINGS HIWY & AVE H		MANIFEST
BROOKLYN	1009241753	CONSOLIDATED EDISON	MH677-HARRISON ALLEY & EVANS		MANIFEST
BROOKLYN	1009242600	CONSOLIDATED EDISON	V5517-PULASKI ST E/O THROOP AV		MANIFEST
BROOKLYN	1009242857	CONSOLIDATED EDISON	MH1000-FLUSHING AVE & THROOP A		MANIFEST
BKLYN	S102142527	E 29TH ST & KINGS HWY	E 29TH ST & KINGS HWY		SPILLS,HIST SPILLS
BROOKLYN	S103938400	BOX 38486	KINGS HIGHWAY/ROCKAWAY PK		SPILLS,HIST SPILLS
BROOKLYN	S106737045	BETW/AVE X &	KINGS HIGHWAY AVE U		SPILLS
BROOKLYN	S107407580	KINGS HIGHWAY MOBIL	KINGS HIGHWAY		SPILLS
BROOKLYN	S109064521	BELL ATLANTIC-NY	E 94 ST/BET CLARKSON AVE KINGS		MANIFEST
	S109207895	205842; KINGS HWY	KINGS HWY		SPILLS
BROOKLYN	S111011715	ROADWAY	KINGS HIGHWAY AND OCEAN PARKWA		SPILLS
BROOKLYN	S111011885	TO ROADWAY	KINGS HWY AND EAST 16TH ST		SPILLS

# OVERVIEW MAP - 3313729.2s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

County Boundary

Power transmission lines

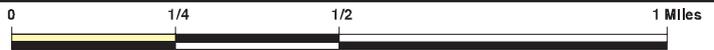
Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

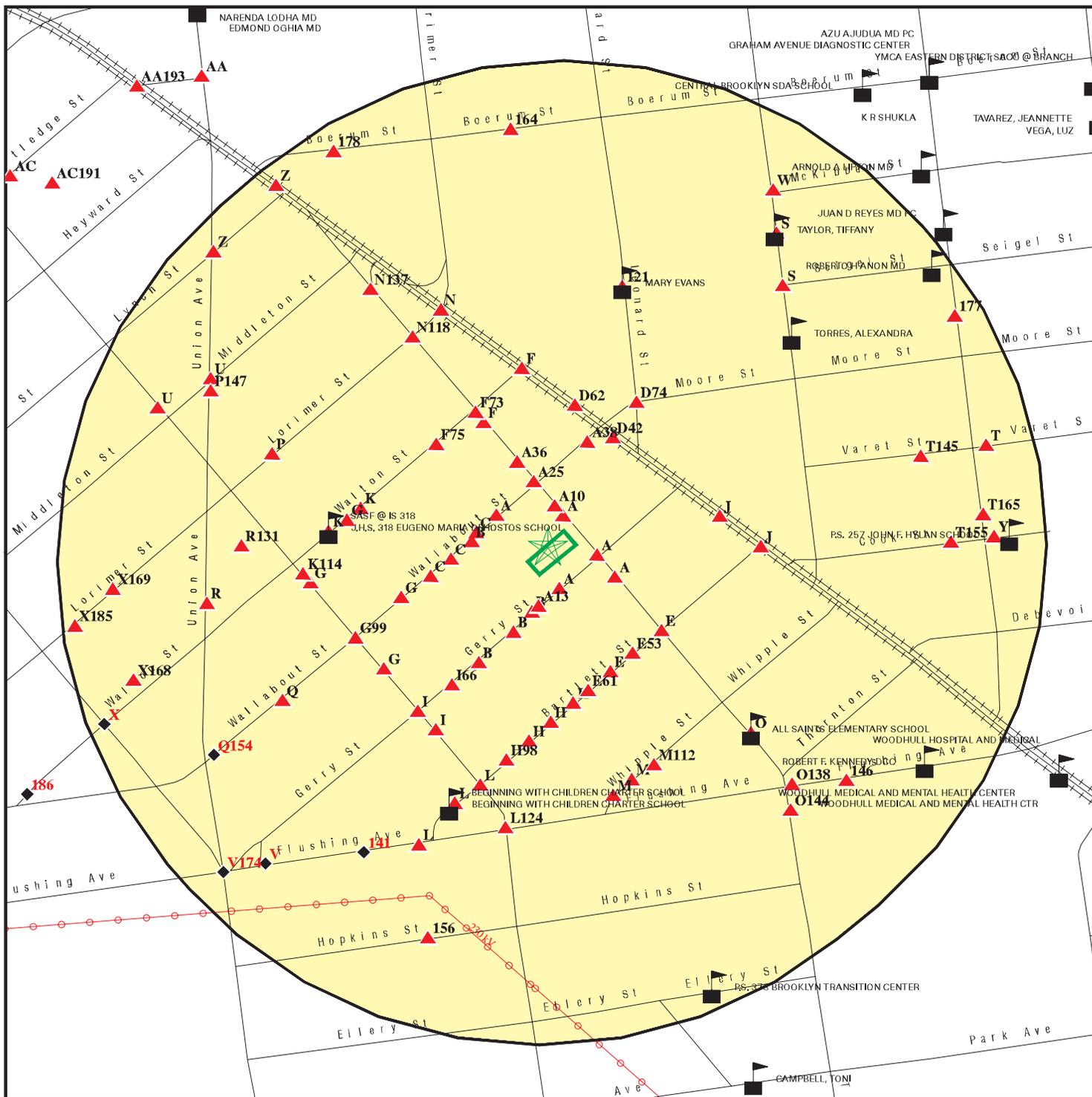


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 78 Throop Avenue  
 ADDRESS: 78 Throop Avenue  
 Brooklyn NY 11206  
 LAT/LONG: 40.7023 / 73.9468

CLIENT: Env. Business Consultants  
 CONTACT: Dominick Mosca  
 INQUIRY #: 3313729.2s  
 DATE: May 01, 2012 11:19 am

# DETAIL MAP - 3313729.2s



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Power transmission lines
-  Oil & Gas pipelines from USGS
-  100-year flood zone
-  500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p><b>SITE NAME:</b> 78 Throop Avenue  <b>ADDRESS:</b> 78 Throop Avenue                  Brooklyn NY 11206  <b>LAT/LONG:</b> 40.7023 / 73.9468</p>	<p><b>CLIENT:</b> Env. Business Consultants  <b>CONTACT:</b> Dominick Mosca  <b>INQUIRY #:</b> 3313729.2s  <b>DATE:</b> May 01, 2012 11:20 am</p>
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## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP	0.500		0	0	2	NR	NR	2
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	1	1	0	NR	2
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		1	3	NR	NR	NR	4
RCRA-SQG	0.250		2	1	NR	NR	NR	3
RCRA-CESQG	0.250		1	6	NR	NR	NR	7
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS	1.000		0	0	0	1	NR	1
VAPOR REOPENED	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	2	NR	NR	2
<b><i>State and tribal leaking storage tank lists</i></b>								
LTANKS	0.500		1	6	23	NR	NR	30
HIST LTANKS	0.500		2	5	32	NR	NR	39
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
TANKS	0.250		0	1	NR	NR	NR	1

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		6	17	NR	NR	NR	23
CBS UST	0.250		0	0	NR	NR	NR	0
MOSF UST	0.500		0	0	0	NR	NR	0
AST	0.250		3	8	NR	NR	NR	11
CBS AST	0.250		0	1	NR	NR	NR	1
MOSF AST	0.500		0	0	0	NR	NR	0
MOSF	0.500		0	0	0	NR	NR	0
CBS	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
RES DECL	0.125		0	NR	NR	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		1	2	0	NR	NR	3
<b>State and tribal Brownfields sites</b>								
ERP	0.500		0	0	0	NR	NR	0
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
HIST UST	0.250		4	10	NR	NR	NR	14
HIST AST	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LUCIS	0.500		0	0	0	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125		15	NR	NR	NR	NR	15
NY Hist Spills	0.125		9	NR	NR	NR	NR	9
<b>Other Ascertainable Records</b>								
RCRA-NonGen	0.250		6	14	NR	NR	NR	20
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
HSWDS	0.500		0	0	1	NR	NR	1
UIC	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		10	27	NR	NR	NR	37
DRYCLEANERS	0.250		1	1	NR	NR	NR	2
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
E DESIGNATION	0.125		75	NR	NR	NR	NR	75
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0

### EDR PROPRIETARY RECORDS

#### **EDR Proprietary Records**

Manufactured Gas Plants	1.000		0	0	0	5	NR	5
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#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
A1 NE < 1/8 0.005 mi. 27 ft.  Relative: Higher	LOT 31,TAXBLOCK 2266 76 THROOP AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242387 N/A
A2 NNE < 1/8 0.008 mi. 44 ft.  Relative: Higher	LOT 30,TAXBLOCK 2266 74 THROOP AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242385 N/A
A3 SSE < 1/8 0.012 mi. 65 ft.  Relative: Higher	LOT 36,TAXBLOCK 2266 99 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242397 N/A
A4 East < 1/8 0.012 mi. 65 ft.  Relative: Higher	LOT 34,TAXBLOCK 2266 82 THROOP AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242393 N/A
A5 South < 1/8 0.013 mi. 66 ft.  Relative: Higher	LOT 37,TAXBLOCK 2266 97 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242400 N/A
A6 South < 1/8 0.013 mi. 68 ft.  Relative: Higher	LOT 38,TAXBLOCK 2266 95 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242401 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
A7 SSE < 1/8 0.014 mi. 74 ft.  Relative: Higher	ON GROUND 90-92 GERRY STREET BROOKLYN, NY  <a href="#">Click here for full text details</a>	NY Spills	S106737228 N/A
A8 SSE < 1/8 0.014 mi. 74 ft.  Relative: Higher	LOT 25,TAXBLOCK 2269 90 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242374 N/A
A9 South < 1/8 0.014 mi. 76 ft.  Relative: Higher	LOT 24,TAXBLOCK 2269 88 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242370 N/A
A10 North < 1/8 0.015 mi. 77 ft.  Relative: Higher	LOT 29,TAXBLOCK 2266 72 THROOP AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242381 N/A
A11 ESE < 1/8 0.015 mi. 80 ft.  Relative: Higher	LOT 27,TAXBLOCK 2269 84 THROOP AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242377 N/A
A12 South < 1/8 0.016 mi. 82 ft.  Relative: Higher	LOT 23,TAXBLOCK 2269 86 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242368 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
A13 South < 1/8 0.016 mi. 87 ft.  Relative: Higher	LOT 39,TAXBLOCK 2266 93 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242402 N/A
B14 SSW < 1/8 0.020 mi. 105 ft.  Relative: Higher	LOT 40,TAXBLOCK 2266 91 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242407 N/A
B15 SSW < 1/8 0.025 mi. 132 ft.  Relative: Higher	PFIZER INC. BROOKLYN PLANT 80 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	UST HIST UST	U003418592 N/A
A16 ESE < 1/8 0.027 mi. 141 ft.  Relative: Higher	LOT 29,TAXBLOCK 2269 88 THROOP AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242382 N/A
A17 WNW < 1/8 0.028 mi. 148 ft.  Relative: Higher	LOT 25,TAXBLOCK 2266 398 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242373 N/A
A18 WNW < 1/8 0.028 mi. 148 ft.  Relative: Higher	MAGIC AUTO REPAIR SHOP 398 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	AST	A100294927 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
A19 WNW < 1/8 0.028 mi. 148 ft.  Relative: Higher	398 WALLABOUT STREET 398 WALLABOUT ST BROOKLYN, NY  <a href="#">Click here for full text details</a>  NY Spills Date Closed: 1/28/2005	NY Spills NY Hist Spills	S104509519 N/A
A20 WNW < 1/8 0.029 mi. 151 ft.  Relative: Higher	LOT 23,TAXBLOCK 2266 394 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242367 N/A
B21 SSW < 1/8 0.029 mi. 154 ft.  Relative: Higher	LOT 19,TAXBLOCK 2269 78 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242361 N/A
A22 WNW < 1/8 0.030 mi. 158 ft.  Relative: Higher	VARTEX INSTRUMENT CORP 311 WALLABOUT ST BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-NonGen FINDS MANIFEST	1004761306 NYR000084483
A23 WNW < 1/8 0.030 mi. 158 ft.  Relative: Higher	LOT 37,TAXBLOCK 2250 311 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242399 N/A
A24 WNW < 1/8 0.030 mi. 158 ft.  Relative: Higher	LOT 36,TAXBLOCK 2250 313 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242396 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
A25 NNW < 1/8 0.031 mi. 164 ft.  Relative: Higher	LOT 33,TAXBLOCK 2250 66 THROOP AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242391 N/A
C26 West < 1/8 0.032 mi. 168 ft.  Relative: Higher	307 WALLABOUT STREET 307 WALLABOUT STREET BROOKLYN, NY 11220  <a href="#">Click here for full text details</a>	UST HIST UST E DESIGNATION	U001841022 N/A
B27 West < 1/8 0.032 mi. 169 ft.  Relative: Higher	LOT 21,TAXBLOCK 2266 390 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242364 N/A
A28 ESE < 1/8 0.033 mi. 173 ft.  Relative: Higher	LOT 30,TAXBLOCK 2269 90 THROOP AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242386 N/A
B29 SSW < 1/8 0.033 mi. 176 ft.  Relative: Higher	LOT 18,TAXBLOCK 2269 76 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242359 N/A
C30 West < 1/8 0.034 mi. 177 ft.  Relative: Higher	LOT 40,TAXBLOCK 2250 305 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242406 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
B31 West < 1/8 0.035 mi. 183 ft.  Relative: Higher	LOT 20,TAXBLOCK 2266 388 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242363 N/A
B32 West < 1/8 0.037 mi. 194 ft.  Relative: Higher	LOT 19,TAXBLOCK 2266 386 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242360 N/A
B33 SSW < 1/8 0.038 mi. 198 ft.  Relative: Higher	LOT 17,TAXBLOCK 2269 74 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242357 N/A
C34 West < 1/8 0.041 mi. 216 ft.  Relative: Higher	LOT 18,TAXBLOCK 2266 384 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242358 N/A
C35 West < 1/8 0.045 mi. 235 ft.  Relative: Higher	LOT 17,TAXBLOCK 2266 382 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242356 N/A
A36 NNW < 1/8 0.045 mi. 235 ft.  Relative: Higher	LOT 32,TAXBLOCK 2250 62 THROOP AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242389 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
C37 WSW < 1/8 0.048 mi. 255 ft.  Relative: Higher	LOT 16,TAXBLOCK 2266 380 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242353 N/A
A38 NNE < 1/8 0.049 mi. 260 ft.  Relative: Higher	LOT 22,TAXBLOCK 2266 392 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242366 N/A
C39 WSW < 1/8 0.049 mi. 261 ft.  Relative: Higher	LOT 41,TAXBLOCK 2250 295 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242410 N/A
C40 WSW < 1/8 0.052 mi. 276 ft.  Relative: Higher	LOT 15,TAXBLOCK 2266 378 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242352 N/A
C41 WSW < 1/8 0.056 mi. 297 ft.  Relative: Higher	LOT 14,TAXBLOCK 2266 376 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242348 N/A
D42 NNE < 1/8 0.056 mi. 297 ft.  Relative: Higher	SOSA DIAGNOSTIC REPAIR INC. 620 BROADWAY BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	AST	A100304674 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
B43 SSW < 1/8 0.057 mi. 299 ft.	EMPTY LOT 73-87 GERRY STREET BROOKLYN, NY  <a href="#">Click here for full text details</a>	NY Spills NY Hist Spills	S104501441 N/A
Relative: Higher	NY Spills Date Closed: 2/2/2000 Date Closed: 11/14/2006		
B44 SSW < 1/8 0.057 mi. 299 ft.	PFIZER SITES B AND D 59-71 GERRY ST. AND 73-87 GERRY ST. BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	VCP	S106906497 N/A
Relative: Higher			
B45 SSW < 1/8 0.057 mi. 299 ft.	PFIZER INC/GERRY ST PFIZER INC/GERRY ST BKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS HIST LTANKS	S100493659 N/A
Relative: Higher	LTANKS Date Closed: 6/22/1992  HIST LTANKS Date Closed: 06/22/92		
B46 SSW < 1/8 0.057 mi. 299 ft.	PFIZER INC BROOKLYN PLANT 73 GERRY ST BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-CESQG FINDS MANIFEST	1001079897 NYR000016048
Relative: Higher			
B47 SSW < 1/8 0.057 mi. 299 ft.	LOT 46,TAXBLOCK 2266 75 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242423 N/A
Relative: Higher			

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
B48 SSW < 1/8 0.057 mi. 299 ft.  Relative: Higher	EMPTY LOT 73-87 GERRY STREET BROOKLYN, NY  <a href="#">Click here for full text details</a>	NY Hist Spills	S102663271 N/A
C49 WSW < 1/8 0.057 mi. 302 ft.  Relative: Higher	LOT 46,TAXBLOCK 2250 291 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242422 N/A
C50 WSW < 1/8 0.061 mi. 324 ft.  Relative: Higher	LOT 48,TAXBLOCK 2250 289 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242429 N/A
E51 SE < 1/8 0.063 mi. 333 ft.  Relative: Higher	LOT 33,TAXBLOCK 2269 69 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242392 N/A
E52 SE < 1/8 0.063 mi. 334 ft.  Relative: Higher	LOT 35,TAXBLOCK 2269 65 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242395 N/A
E53 SE < 1/8 0.063 mi. 335 ft.  Relative: Higher	LOT 36,TAXBLOCK 2269 63 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242398 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
E54 SSE < 1/8 0.064 mi. 337 ft. Relative: Higher	LOT 39,TAXBLOCK 2269 57 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242403 N/A
E55 SE < 1/8 0.064 mi. 339 ft. Relative: Higher	DRUM RUN CORNER THROOP AVE AND BARTLETT ST BROOKLYN, NY  <a href="#">Click here for full text details</a>  NY Spills Date Closed: 5/5/2010	NY Spills	S110308002 N/A
E56 SE < 1/8 0.064 mi. 339 ft. Relative: Higher	BROADWAY TRIANGLE THROOP AVE / BARTLETT ST BROOKLYN, NY  <a href="#">Click here for full text details</a>  NY Spills Date Closed: 6/28/1999	NY Spills NY Hist Spills	S102143753 N/A
E57 SE < 1/8 0.064 mi. 339 ft. Relative: Higher	THROOP AVENUE / BARTLETT STREET THROOP AVENUE / BARTLETT STREET BROOKLYN, NY 11000  <a href="#">Click here for full text details</a>  UST Date Tank Closed: 1994-03-01 00:00:00 Date Tank Closed: 1994-03-01 00:00:00 Date Tank Closed: 1994-03-01 00:00:00 Date Tank Closed: 1994-03-01 00:00:00	UST HIST UST	U002034160 N/A
E58 SSE < 1/8 0.064 mi. 340 ft. Relative: Higher	LOT 40,TAXBLOCK 2269 55 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242408 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
F59 NNW < 1/8 0.065 mi. 344 ft.  Relative: Higher	LOT 29,TAXBLOCK 2250 56 THROOP AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242380 N/A
E60 SSE < 1/8 0.065 mi. 345 ft.  Relative: Higher	LOT 41,TAXBLOCK 2269 53 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242412 N/A
E61 SSE < 1/8 0.067 mi. 352 ft.  Relative: Higher	LOT 42,TAXBLOCK 2269 51 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242414 N/A
D62 North < 1/8 0.067 mi. 356 ft.  Relative: Higher	APARTMENT BUILDING 613 BROADWAY BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>  NY Spills Date Closed: 12/14/2009	NY Spills NY Hist Spills	S104951601 N/A
G63 WSW < 1/8 0.070 mi. 369 ft.  Relative: Higher	SERVICE BOX # 7967 285 WALLABOUT ST BROOKLYN, NY  <a href="#">Click here for full text details</a>  NY Spills Date Closed: 9/28/2005	NY Spills	S106970181 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
H64 South < 1/8 0.070 mi. 372 ft.  Relative: Higher	LOT 43,TAXBLOCK 2269 47 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242416 N/A
F65 NNW < 1/8 0.072 mi. 380 ft.  Relative: Higher	LOT 28,TAXBLOCK 2250 54 THROOP AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242378 N/A
I66 SW < 1/8 0.075 mi. 394 ft.  Relative: Higher	LOT 1,TAXBLOCK 2269 58 GERRY STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242338 N/A
H67 South < 1/8 0.076 mi. 399 ft.  Relative: Higher	LOT 45,TAXBLOCK 2269 43 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242419 N/A
H68 South < 1/8 0.077 mi. 405 ft.  Relative: Higher	LOT 11,TAXBLOCK 2272 36 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242343 N/A
G69 WSW < 1/8 0.078 mi. 411 ft.  Relative: Higher	LOT 9,TAXBLOCK 2266 366 WALLABOUT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242450 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
J70 East < 1/8 0.078 mi. 412 ft.  Relative: Higher	SERVICE BOX 15648 650 BROADWAY BROOKLYN, NY  <a href="#">Click here for full text details</a>	NY Hist Spills	S104651729 N/A
J71 East < 1/8 0.078 mi. 412 ft.  Relative: Higher	JUNKYARD 650 BROADWAY BROOKLYN, NY  <a href="#">Click here for full text details</a>  NY Spills Date Closed: 1/17/2002	NY Spills	S109061916 N/A
H72 South < 1/8 0.078 mi. 414 ft.  Relative: Higher	LOT 47,TAXBLOCK 2269 41 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242427 N/A
F73 NNW < 1/8 0.079 mi. 416 ft.  Relative: Higher	LOT 27,TAXBLOCK 2250 52 THROOP AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242376 N/A
D74 NNE < 1/8 0.079 mi. 416 ft.  Relative: Higher	VAULT 3871 MOORE AND LEONARD ST BROOKLYN, NY  <a href="#">Click here for full text details</a>  NY Spills Date Closed: 4/3/2002	NY Spills NY Hist Spills	S103937163 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
F75 NW < 1/8 0.079 mi. 419 ft.  Relative: Higher	LOT 25,TAXBLOCK 2250 116 WALTON STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242372 N/A
H76 South < 1/8 0.082 mi. 431 ft.  Relative: Higher	LOT 48,TAXBLOCK 2269 39 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242430 N/A
H77 South < 1/8 0.085 mi. 448 ft.  Relative: Higher	LOT 49,TAXBLOCK 2269 37 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242432 N/A
H78 South < 1/8 0.085 mi. 450 ft.  Relative: Higher	2001 HIGH TECH AUTO SERVICE CORP. 30 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	UST	U004053200 N/A
H79 South < 1/8 0.085 mi. 450 ft.  Relative: Higher	LOT 9,TAXBLOCK 2272 30 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242451 N/A
F80 North < 1/8 0.088 mi. 464 ft.  Relative: Higher	CITGO/ 594 BROADWAY 594 BROADWAY BROOKLYN, NY  <a href="#">Click here for full text details</a>  HIST LTANKS Date Closed: / /	HIST LTANKS NY Spills	S102672996 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
F81 North < 1/8 0.088 mi. 464 ft.	RICHARDS AUTO REPAIR SHOP 594 BROADWAY BROOKLYN, NY 99999	RCRA-NonGen FINDS	1001482986 NYU005001185
Relative: Higher	<a href="#">Click here for full text details</a>		
F82 North < 1/8 0.088 mi. 464 ft.	SUSION DEVELPORS LLC 594 BROADWAY BROOKLYN, NY 11206	UST HIST UST HIST AST	U001330304 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
H83 South < 1/8 0.088 mi. 467 ft.	LOT 50,TAXBLOCK 2269 35 BARTLETT STREET BROOKLYN, NY 11206	E DESIGNATION	S110242435 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
F84 North < 1/8 0.090 mi. 473 ft.	DRUM RUN BROADWAY & WALTON ST BROOKLYN, NY	NY Spills	S108638863 N/A
Relative: Higher	<a href="#">Click here for full text details</a> NY Spills Date Closed: 8/9/2007		
K85 WNW < 1/8 0.093 mi. 493 ft.	LOT 14,TAXBLOCK 2250 94 WALTON STREET BROOKLYN, NY 11206	E DESIGNATION	S110242347 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
K86 WNW < 1/8 0.093 mi. 493 ft.	HOO CORP 94 WALLTON STREET BROOKLYN, NY 11206	UST	U004047146 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
H87 South < 1/8 0.095 mi. 501 ft.	LOT 6,TAXBLOCK 2272 24 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242445 N/A
Relative: Higher	<hr/>		
G88 SW < 1/8 0.095 mi. 502 ft.	BAIS RUCHEL HIGH SCHOOL INC 177 HARRISON AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-SQG	1014919590 NYR000183780
Relative: Higher	<hr/>		
G89 SW < 1/8 0.095 mi. 502 ft.	BAIS RUCHEL HIGH SCHOOL INC 177 HARRISON AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	MANIFEST	S111314429 N/A
Relative: Higher	<hr/>		
H90 South < 1/8 0.096 mi. 506 ft.	LOT 52,TAXBLOCK 2269 31 BARTLETT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242437 N/A
Relative: Higher	<hr/>		
I91 SW < 1/8 0.097 mi. 512 ft.	CON ED - MH 485 GERRY ST & HARRISON AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-NonGen MANIFEST	1007206268 NYP004006821
Relative: Higher	<hr/>		
I92 SW < 1/8 0.097 mi. 512 ft.	MANHOLE 1144 GERRY ST/HARRISON AV BROOKLYN, NY  <a href="#">Click here for full text details</a>	NY Spills	S106012844 N/A
Relative: Higher	NY Spills Date Closed: 7/18/2003		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
J93 East < 1/8 0.098 mi. 519 ft.	CONSOLIDATED EDISON MH15861 662 BROADWAY BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	MANIFEST	S110046858 N/A
J94 East < 1/8 0.098 mi. 519 ft.	CON EDISON - MANHOLE 15641 662 BROADWAY BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-LQG	1014396248 NYP004184289
G95 West < 1/8 0.099 mi. 521 ft.	LOT 12,TAXBLOCK 2250 90 WALTON STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242344 N/A
I96 SSW < 1/8 0.099 mi. 523 ft.	ARLINGTON PRESS 191 HARRISON AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	MANIFEST	S109782046 N/A
I97 SSW < 1/8 0.099 mi. 523 ft.	ARLINGTON PRESS-191 HARRISON AVE 191 HARRISON AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-SQG FINDS MANIFEST	1000257521 NYD001513779
H98 South < 1/8 0.100 mi. 527 ft.	29 BARTLETT STREET 29 BARTLETT STREET BROOKLYN, NY  <a href="#">Click here for full text details</a>	NY Spills NY Hist Spills	S102150626 N/A
Relative: Higher	NY Spills Date Closed: 8/24/1995		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
G99 WSW < 1/8 0.100 mi. 528 ft.  Relative: Higher	MANHOLE 468 WALLABOUT ST/HARRISON AVE BROOKLYN, NY  <a href="#">Click here for full text details</a>	NY Spills NY Hist Spills	S104787837 N/A
I100 SW < 1/8 0.100 mi. 530 ft.  Relative: Higher	V4821 48 GERRY STREET NEW YORK CITY, NY 11206  <a href="#">Click here for full text details</a>	RCRA-NonGen MANIFEST	1007206956 NYP004034575
G101 West < 1/8 0.102 mi. 536 ft.  Relative: Higher	LOT 11,TAXBLOCK 2250 88 WALTON STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242342 N/A
G102 West < 1/8 0.105 mi. 552 ft.  Relative: Higher	LOT 10,TAXBLOCK 2250 86 WALTON STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242340 N/A
K103 West < 1/8 0.107 mi. 566 ft.  Relative: Higher	I.S. 318 101 WALTON STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	AST HIST AST	U003394304 N/A
K104 West < 1/8 0.107 mi. 566 ft.  Relative: Higher	IS 318 101 WALTON ST BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-NonGen FINDS MANIFEST	1000552941 NYD986953461

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
G105 WSW < 1/8 0.109 mi. 578 ft. Relative: Higher	LOT 4,TAXBLOCK 2250 161 HARRISON AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242404 N/A
G106 WSW < 1/8 0.112 mi. 594 ft. Relative: Higher	LOT 6,TAXBLOCK 2250 159 HARRISON AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242444 N/A
L107 SSW < 1/8 0.116 mi. 612 ft. Relative: Higher	LOT 3,TAXBLOCK 2272 207 HARRISON AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242384 N/A
L108 SSW < 1/8 0.116 mi. 612 ft. Relative: Higher	BARTLETT ST & HARRISON BARTLETT STREET/HARRISON BROOKLYN, NY  <a href="#">Click here for full text details</a>  NY Spills Date Closed: 5/16/2003	NY Spills	S106014127 N/A
G109 West < 1/8 0.116 mi. 612 ft. Relative: Higher	LOT 7,TAXBLOCK 2250 157 HARRISON AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	E DESIGNATION	S110242447 N/A
L110 SSW < 1/8 0.116 mi. 613 ft. Relative: Higher	HARRISON/YORKTOWN/ACE RAPID DRYCLEANERS 209 HARRISON AVENUE #A BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	DRYCLEANERS	S106435386 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
L111 SSW < 1/8 0.116 mi. 613 ft. Relative: Higher	HARRISON DRY CLEANERS 209 HARRISON AVENUE BROOKLYN, NY 11206 <a href="#">Click here for full text details</a>	RCRA-NonGen FINDS MANIFEST	1000129464 NYD045446994
M112 SSE < 1/8 0.118 mi. 622 ft. Relative: Higher	LOT 5,TAXBLOCK 2274 16 WHIPPLE STREET BROOKLYN, NY 11206 <a href="#">Click here for full text details</a>	E DESIGNATION	S110242434 N/A
M113 SSE < 1/8 0.119 mi. 630 ft. Relative: Higher	LOT 45,TAXBLOCK 2272 11 WHIPPLE STREET BROOKLYN, NY 11206 <a href="#">Click here for full text details</a>	E DESIGNATION	S110242420 N/A
K114 West < 1/8 0.120 mi. 631 ft. Relative: Higher	LOT 8,TAXBLOCK 2250 155 HARRISON AVENUE BROOKLYN, NY 11206 <a href="#">Click here for full text details</a>	E DESIGNATION	S110242449 N/A
M115 SSE < 1/8 0.121 mi. 637 ft. Relative: Higher	LOT 46,TAXBLOCK 2272 9 WHIPPLE STREET BROOKLYN, NY 11206 <a href="#">Click here for full text details</a>	E DESIGNATION	S110242424 N/A
M116 SSE < 1/8 0.123 mi. 652 ft. Relative: Higher	LOT 147,TAXBLOCK 2272 5 WHIPPLE STREET BROOKLYN, NY 11206 <a href="#">Click here for full text details</a>	E DESIGNATION	S110242350 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
L117 SSW 1/8-1/4 0.129 mi. 683 ft.	PFIZER INC 11 BARTLETT ST BROOKLYN, NY 11206	CORRACTS RCRA-LQG RAATS MANIFEST	1000443177 NYD001374214
Relative: Higher	<a href="#">Click here for full text details</a>		
N118 NNW 1/8-1/4 0.131 mi. 692 ft.	CON EDISON - TM 1358 THROOP AVE & LORIMER ST BROOKLYN, NY 11206	RCRA-NonGen MANIFEST	1008195668 NYP004111993
Relative: Higher	<a href="#">Click here for full text details</a>		
M119 SSE 1/8-1/4 0.132 mi. 699 ft.	CON EDISON WHIPPLE ST & FLUSHING AVE BROOKLYN, NY 11206	RCRA-CESQG	1014396428 NYP004186920
Relative: Higher	<a href="#">Click here for full text details</a>		
L120 SSW 1/8-1/4 0.133 mi. 701 ft.	PFIZER INC 11 BARTLETT STREET BROOKLYN, NY 11206	MANIFEST	S109533642 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
121 NNE 1/8-1/4 0.134 mi. 707 ft.	LINDSAY PARK HOUSING CORP 31 LEONARD STREET BROOKLYN, NY 11206	UST HIST UST	U003127541 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
	UST Date Tank Closed: 2011-10-15 00:00:00		
N122 NNW 1/8-1/4 0.135 mi. 711 ft.	MTA NYCT - LORIMER ST STATION J-LINE LORIMER ST & BROADWAY BROOKLYN, NY 11206	RCRA-NonGen FINDS MANIFEST	1004761237 NYR000082131
Relative: Higher	<a href="#">Click here for full text details</a>		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
N123 NNW 1/8-1/4 0.135 mi. 711 ft. Relative: Higher	CON EDISON LORIMER ST & BROADWAY BROOKLYN, NY 11206 <a href="#">Click here for full text details</a>	RCRA-CESQG	1014396188 NYP004183687
L124 South 1/8-1/4 0.135 mi. 715 ft. Relative: Higher	BP AMOCO SERVICE STATION #36714 655 FLUSHING AVENUE BROOKLYN, NY 11206 <a href="#">Click here for full text details</a>	UST HIST UST	U001839090 N/A
O125 SE 1/8-1/4 0.136 mi. 719 ft. Relative: Higher	CLOSED-LACKOF RECENT INFO 113 THROOP AVE BROOKLYN, NY <a href="#">Click here for full text details</a> LTANKS Date Closed: 3/4/2003  HIST LTANKS Date Closed: / /	LTANKS HIST LTANKS	S106703168 N/A
O126 SE 1/8-1/4 0.138 mi. 727 ft. Relative: Higher	ALL SAINTS R C CHURCH 115 THROOP AVE BROOKLYN, NY 11206 <a href="#">Click here for full text details</a> UST Date Tank Closed: 1996-08-01 00:00:00 Date Tank Closed: 1995-09-01 00:00:00 Date Tank Closed: 1996-08-01 00:00:00	UST HIST UST	U000405431 N/A
P127 WNW 1/8-1/4 0.148 mi. 780 ft. Relative: Higher	NYCT - BROADWAY-LORIMER SUBSTATION 143 LORIMER ST BROOKLYN, NY 11206 <a href="#">Click here for full text details</a>	RCRA-SQG	1010787683 NYR000156547

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
P128 WNW 1/8-1/4 0.148 mi. 780 ft. Relative: Higher	NYCT - BROADWAY-LORIMER SUBSTATION 143 LORIMER ST BROOKLYN, NY 11206 <a href="#">Click here for full text details</a>	MANIFEST	S109826131 N/A
Q129 WSW 1/8-1/4 0.150 mi. 790 ft. Relative: Higher	255 WALLABOUT ST/PFIZER 255 WALLABOUT STREET NEW YORK CITY, NY <a href="#">Click here for full text details</a>  LTANKS Date Closed: 11/14/2006  HIST LTANKS Date Closed: / /	LTANKS HIST LTANKS	S102671554 N/A
Q130 WSW 1/8-1/4 0.150 mi. 794 ft. Relative: Higher	PFIZER INC BROOKLYN PLANT 338 WALLABOUT ST BROOKLYN, NY 11206 <a href="#">Click here for full text details</a>	RCRA-NonGen FINDS MANIFEST	1000871470 NY0000055384
R131 West 1/8-1/4 0.152 mi. 805 ft. Relative: Higher	HYDRO TECH 70 UNION AVENUE BROOK LYN, NY 10001 <a href="#">Click here for full text details</a>	MANIFEST	S109155767 N/A
L132 SSW 1/8-1/4 0.157 mi. 829 ft. Relative: Higher	PFIZER INC BROOKLYN PLT 630 FLUSHING AVENUE BROOKLYN, NY 11206 <a href="#">Click here for full text details</a>	MANIFEST	S109785213 N/A

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
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<b>L133</b> <b>SSW</b> <b>1/8-1/4</b> <b>0.157 mi.</b> <b>829 ft.</b>  <b>Relative:</b> <b>Higher</b>	<b>PFIZER INC. BROOKLYN PLANT</b> <b>630 FLUSHING AVENUE</b> <b>BROOKLYN, NY 11206</b>  <a href="#">Click here for full text details</a>	<b>RCRA-LQG</b> <b>FINDS</b> <b>MANIFEST</b>	<b>1000458301</b> <b>NYD986936904</b>
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<b>L134</b> <b>SSW</b> <b>1/8-1/4</b> <b>0.157 mi.</b> <b>829 ft.</b>  <b>Relative:</b> <b>Higher</b>	<b>TEXECO STATION</b> <b>630 FLUSHING AVE</b> <b>WILLIAMBURG, NY</b>  <a href="#">Click here for full text details</a>	<b>LTANKS</b> <b>HIST LTANKS</b> <b>HIST UST</b> <b>AST</b> <b>HIST AST</b> <b>MANIFEST</b> <b>NY Spills</b> <b>NY Hist Spills</b> <b>VCP</b> <b>CBS</b>	<b>U003074670</b> <b>N/A</b>
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**LTANKS**  
Date Closed: 3/31/2006

**HIST LTANKS**  
Date Closed: / /

**NY Spills**  
Date Closed: 6/16/2003  
Date Closed: 9/17/2003  
Date Closed: 4/5/2006  
Date Closed: 8/10/1995

**CBS**  
Facility Status: Unregulated

<b>L135</b> <b>SSW</b> <b>1/8-1/4</b> <b>0.157 mi.</b> <b>829 ft.</b>  <b>Relative:</b> <b>Higher</b>	<b>630 FLUSHING AVE</b> <b>630 FLUSHING AVE</b> <b>BROOKLYN, NY</b>  <a href="#">Click here for full text details</a>  <b>HIST LTANKS</b> Date Closed: / /	<b>HIST LTANKS</b> <b>CBS AST</b>	<b>S100560594</b> <b>N/A</b>
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MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

<p><b>L136</b> <b>SSW</b> <b>1/8-1/4</b> <b>0.157 mi.</b> <b>829 ft.</b></p> <p>Relative: Higher</p>	<p><b>PFIZER INC</b> <b>630 FLUSHING AVENUE</b> <b>BROOKLYN, NY 11206</b></p> <p style="color: blue; text-decoration: underline;"><a href="#">Click here for full text details</a></p> <p><b>UST</b> Date Tank Closed: 1993-06-01 00:00:00 Date Tank Closed: 1999-09-01 00:00:00 Date Tank Closed: 1999-09-01 00:00:00 Date Tank Closed: 1999-09-01 00:00:00 Date Tank Closed: 1999-09-01 00:00:00 Date Tank Closed: 1993-06-01 00:00:00 Date Tank Closed: 1993-06-01 00:00:00 Date Tank Closed: 1999-09-01 00:00:00 Date Tank Closed: 1999-09-01 00:00:00</p>	<p><b>UST</b></p>	<p><b>U004064026</b> <b>N/A</b></p>
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<p><b>N137</b> <b>NW</b> <b>1/8-1/4</b> <b>0.165 mi.</b> <b>870 ft.</b></p> <p>Relative: Higher</p>	<p><b>NYCTA - 22 THROOP AVE</b> <b>22 THROOP AVE</b> <b>BROOKLYN, NY 11206</b></p> <p style="color: blue; text-decoration: underline;"><a href="#">Click here for full text details</a></p>	<p><b>RCRA-NonGen</b> <b>FINDS</b> <b>MANIFEST</b></p>	<p><b>1000912691</b> <b>NY0000902171</b></p>
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<p><b>O138</b> <b>SE</b> <b>1/8-1/4</b> <b>0.171 mi.</b> <b>904 ft.</b></p> <p>Relative: Higher</p>	<p><b>709-715 FLUSHING AVE</b> <b>709-715 FLUSHING AVE</b> <b>BROOKLYN, NY 11206</b></p> <p style="color: blue; text-decoration: underline;"><a href="#">Click here for full text details</a></p> <p><b>UST</b> Date Tank Closed: 2007-05-03 00:00:00 Date Tank Closed: 2007-05-03 00:00:00 Date Tank Closed: 2007-05-03 00:00:00 Date Tank Closed: 2007-05-03 00:00:00</p>	<p><b>UST</b></p>	<p><b>U004107550</b> <b>N/A</b></p>
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<p><b>R139</b> <b>West</b> <b>1/8-1/4</b> <b>0.172 mi.</b> <b>908 ft.</b></p> <p>Relative: Higher</p>	<p><b>CAS DEVELOPERS LLC</b> <b>70 UNION AVE</b> <b>BROOKLYN, NY 11206</b></p> <p style="color: blue; text-decoration: underline;"><a href="#">Click here for full text details</a></p>	<p><b>RCRA-CESQG</b></p>	<p><b>1010329016</b> <b>NYR000146126</b></p>
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MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
R140 West 1/8-1/4 0.172 mi. 908 ft.  Relative: Higher	70 UNION AVENUE 70 UNION AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>  UST Date Tank Closed: 2007-02-12 00:00:00 Date Tank Closed: 2007-06-15 00:00:00 Date Tank Closed: 2007-02-12 00:00:00 Date Tank Closed: 2007-02-12 00:00:00 Date Tank Closed: 2007-02-12 00:00:00 Date Tank Closed: 2007-02-12 00:00:00	UST	U004078635 N/A
141 SSW 1/8-1/4 0.175 mi. 922 ft.  Relative: Lower	PFIZER (ORGANICS/SUCIAC BLOCK) CENTRAL PORTION OF PFIZER FACILITY, 630 FLUSHING A BROOKLYN, NY  <a href="#">Click here for full text details</a>	VCP	S104323903 N/A
S142 NE 1/8-1/4 0.175 mi. 924 ft.  Relative: Higher	CON ED-V5285 SEIGAL ST & MANHATTAN AVE BROOKLYN, NY 11222  <a href="#">Click here for full text details</a>	MANIFEST	S109064683 N/A
S143 NE 1/8-1/4 0.175 mi. 925 ft.  Relative: Higher	CON ED - VS 5285 SEIGAL ST & MANHATTAN AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-NonGen MANIFEST	1007206261 NYP004006680
O144 SE 1/8-1/4 0.181 mi. 956 ft.  Relative: Higher	EMS BATT 57 @ WOODHULL HOSPITAL 131 THROOP AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	UST	U004046659 N/A

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

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<b>T145</b> <b>ENE</b> <b>1/8-1/4</b> <b>0.189 mi.</b> <b>1000 ft.</b>	<b>COOK STREET HOUSING</b> <b>40 VARET STREET</b> <b>BROOKLYN, NY 11206</b>	<b>UST</b>	<b>U004129097</b> <b>N/A</b>
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[Click here for full text details](#)

Relative:  
Higher

**UST**  
Date Tank Closed: 2008-01-29 00:00:00

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<b>146</b> <b>SE</b> <b>1/8-1/4</b> <b>0.190 mi.</b> <b>1005 ft.</b>	<b>EMS @ WOODHULL HOSPITAL</b> <b>720 FLUSHING AVE</b> <b>BROOKLYN, NY 11206</b>	<b>UST</b> <b>HIST UST</b>	<b>U003652107</b> <b>N/A</b>
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[Click here for full text details](#)

Relative:  
Higher

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<b>P147</b> <b>WNW</b> <b>1/8-1/4</b> <b>0.191 mi.</b> <b>1011 ft.</b>	<b>GEORGE ROYH</b> <b>116 UNION AVENUE</b> <b>BROOKLYN, NY 11204</b>	<b>UST</b> <b>HIST UST</b>	<b>U003127205</b> <b>N/A</b>
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[Click here for full text details](#)

Relative:  
Higher

**UST**  
 Date Tank Closed: 1996-09-01 00:00:00  
 Date Tank Closed: 1996-09-01 00:00:00

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<b>S148</b> <b>NE</b> <b>1/8-1/4</b> <b>0.194 mi.</b> <b>1025 ft.</b>	<b>67 MANHATTAN AVE</b> <b>67 MANHATTAN AVE</b> <b>BROOKLYN, NY</b>	<b>MANIFEST</b> <b>NY Spills</b> <b>NY Hist Spills</b>	<b>S102180042</b> <b>N/A</b>
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[Click here for full text details](#)

Relative:  
Higher

**NY Spills**  
 Date Closed: 12/16/2002  
 Date Closed: 12/16/2002  
 Date Closed: 12/16/2002  
 Date Closed: 12/16/2002

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
S149 NE 1/8-1/4 0.194 mi. 1025 ft.	LINDSAY PARK HOUSING CORP 67 MANHATTAN AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	UST HIST UST	U003127540 N/A
Relative: Higher	UST Date Tank Closed: 2009-09-07 00:00:00		
S150 NE 1/8-1/4 0.195 mi. 1029 ft.	CON EDISON - 67 MANHATTAN AVE 67 MANHATTAN AVE BROOKLYN, NY 11211  <a href="#">Click here for full text details</a>	RCRA-NonGen FINDS	1001119359 NYR000026468
Relative: Higher			
U151 WNW 1/8-1/4 0.195 mi. 1029 ft.	KNIGHTS COLLISION EXPERTS INC 120 UNION AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-NonGen	1000235004 NYD012575643
Relative: Higher			
U152 WNW 1/8-1/4 0.195 mi. 1029 ft.	KNIGHTS COLLISION & AUTO CARE CENTER 120 UNION AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	UST	U004047351 N/A
Relative: Higher	UST Date Tank Closed: 2010-04-02 00:00:00		
U153 WNW 1/8-1/4 0.195 mi. 1029 ft.	KNIGHTS COLLISION EXPERTS INC 120 UNION AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	MANIFEST NY Spills	S109373498 N/A
Relative: Higher	NY Spills Date Closed: 12/2/2008 Date Closed: 2/9/2009		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
Q154 WSW 1/8-1/4 0.196 mi. 1033 ft.	TM2554 322 WALLABOUT STREET NEW YORK, NY 11231	RCRA-NonGen MANIFEST	1007207456 NYP004046181
Relative: Lower	<a href="#">Click here for full text details</a>		
T155 East 1/8-1/4 0.199 mi. 1052 ft.	GRAYCO CORP. 29 COOK STREET BROOKLYN, NY 11206	AST	A100294254 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
156 SSW 1/8-1/4 0.202 mi. 1065 ft.	CON EDISON - VS 2314 93 HOPKINS ST BROOKLYN, NY 11215	RCRA-NonGen MANIFEST	1008195512 NYP004106852
Relative: Higher	<a href="#">Click here for full text details</a>		
U157 WNW 1/8-1/4 0.206 mi. 1088 ft.	CONSOLIDATED EDISON MIDDLETON & HARRISON BROOKLYN, NY 11201	MANIFEST	1009239144 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
V158 SW 1/8-1/4 0.212 mi. 1117 ft.	CONSOLIDATED EDISON MH611-104 FLUSHING AVE BROOKLYN, NY	MANIFEST	1009243556 N/A
Relative: Lower	<a href="#">Click here for full text details</a>		
W159 NNE 1/8-1/4 0.213 mi. 1123 ft.	MARS CLEANERS 80 MANHATTAN AVE. BROOKLYN, NY 11206	DRYCLEANERS	S106435380 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
W160 NNE 1/8-1/4 0.213 mi. 1123 ft.	MARS CLEANERS 80 MANHATTAN AVE BROOKLYN, NY 11206	RCRA-CESQG FINDS MANIFEST	1004758895 NYD987029188
Relative: Higher	<a href="#">Click here for full text details</a>		
U161 WNW 1/8-1/4 0.213 mi. 1126 ft.	ANTONIA GONSALIS 118-120 HARRISON AVENUE BROOKLYN, NY 11206	UST HIST UST	U003418625 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
	UST Date Tank Closed: 1998-11-01 00:00:00 Date Tank Closed: 1998-11-01 00:00:00 Date Tank Closed: 1998-11-01 00:00:00 Date Tank Closed: 1998-11-01 00:00:00		
V162 SW 1/8-1/4 0.213 mi. 1127 ft.	V1821 2 GERRY STREET BROOKLYN, NY 11206	RCRA-NonGen MANIFEST	1007206768 NYP004018412
Relative: Lower	<a href="#">Click here for full text details</a>		
V163 SW 1/8-1/4 0.213 mi. 1127 ft.	V2107 2-48 GERRY BROOKLYN, NY 11206	RCRA-NonGen MANIFEST	1007206769 NYP004018420
Relative: Lower	<a href="#">Click here for full text details</a>		
164 North 1/8-1/4 0.216 mi. 1139 ft.	LINDSAY PARK HOUSING CORP 54 BOERUM ST BROOKLYLN, NY	LTANKS	S109829698 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
	LTANKS Date Closed: 10/27/2010		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
T165 East 1/8-1/4 0.217 mi. 1146 ft.	35 GRAHM AVE. 35 GRAHM AVE. BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS HIST LTANKS	S102672170 N/A
Relative: Higher	LTANKS Date Closed: 5/19/1993  HIST LTANKS Date Closed: 05/19/93		
T166 ENE 1/8-1/4 0.218 mi. 1151 ft.	CONSOLIDATED EDISON MH1401 64 GRAHAM AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	MANIFEST	S110046844 N/A
Relative: Higher			
T167 ENE 1/8-1/4 0.218 mi. 1151 ft.	CON EDISON - MANHOLE 14001 64 GRAHAM AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-LQG	1014396249 NYP004184297
Relative: Higher			
X168 WSW 1/8-1/4 0.219 mi. 1154 ft.	ULTIMATE AUTO REPAIR CORP. 45 WALTON STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	AST	A100178151 N/A
Relative: Higher			
X169 West 1/8-1/4 0.221 mi. 1166 ft.	AVALON INDUSTRIES INC 95 LORIMER ST BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-NonGen FINDS	1000290354 NYD001233402
Relative: Higher			

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
Y170 East 1/8-1/4 0.222 mi. 1173 ft.	L.J.S.T. REALTY 45 COOK STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	AST	A100294723 N/A
Relative: Higher	<hr/>		
T171 ENE 1/8-1/4 0.224 mi. 1185 ft.	30 FAMILY APT HOUSE 77 VARET ST BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	AST HIST AST	U003384666 N/A
Relative: Higher	<hr/>		
Y172 East 1/8-1/4 0.230 mi. 1215 ft.	P S 257 60 COOK ST BKLN, NY 11206  <a href="#">Click here for full text details</a>	AST HIST AST MANIFEST	U003394210 N/A
Relative: Higher	<hr/>		
Y173 East 1/8-1/4 0.230 mi. 1215 ft.	NYC BD OF ED - PUBLIC SCHOOL 257 BKLYN 60 COOK ST BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-CESQG FINDS	1004755781 NY0000375469
Relative: Higher	<hr/>		
V174 SW 1/8-1/4 0.231 mi. 1218 ft.	MTA NYCT - FLUSHING AVE STATION G LINE FLUSHING & UNION AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-CESQG FINDS MANIFEST MANIFEST	1001203025 NYR000043455
Relative: Lower	<hr/>		
Z175 NW 1/8-1/4 0.235 mi. 1240 ft.	SERVICE STATION 152 UNION AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	RCRA-NonGen FINDS	1000432489 NYD000824201
Relative: Higher	<hr/>		

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

Z176  
 NW  
 1/8-1/4  
 0.235 mi.  
 1240 ft.

**BP AMOCO SERVICE STATION #48360**  
**152 UNION AVENUE**  
**BROOKLYN, NY 11211**

**UST** **U001833054**  
**HIST UST** **N/A**  
**NY Spills**

[Click here for full text details](#)

Relative:  
 Higher

**UST**  
 Date Tank Closed: 1990-12-01 00:00:00  
 Date Tank Closed: 1990-12-01 00:00:00  
 Date Tank Closed: 1990-12-01 00:00:00  
 Date Tank Closed: 1996-08-01 00:00:00  
 Date Tank Closed: 1990-12-01 00:00:00

**NY Spills**  
 Date Closed: 8/1/2006

177  
 ENE  
 1/8-1/4  
 0.235 mi.  
 1243 ft.

**HELEN LEVINE**  
**73 GRAHAM AVE**  
**BROOKLYN, NY 11206**

**AST** **U003386747**  
**HIST AST** **N/A**

[Click here for full text details](#)

Relative:  
 Higher

178  
 NNW  
 1/8-1/4  
 0.236 mi.  
 1247 ft.

**NYNEX**  
**18 BOERUM STREET**  
**BROOKLYN, NY 11206**

**TANKS** **S110771804**  
**N/A**

[Click here for full text details](#)

Relative:  
 Higher

Z179  
 NW  
 1/8-1/4  
 0.239 mi.  
 1263 ft.

**LINCOLN PROPERTIES DEVELOPMENT, LLC**  
**531 BROADWAY**  
**BROOKLYN, NY 11206**

**UST** **U004078502**  
**N/A**

[Click here for full text details](#)

Relative:  
 Higher

**UST**  
 Date Tank Closed: 2004-09-01 00:00:00

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
Z180 NW 1/8-1/4 0.239 mi. 1263 ft.	DIME SAVINGS BANK. FBS 531 BROADWAY BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	HIST UST	U003397310 N/A
Relative: Higher			
Z181 NW 1/8-1/4 0.239 mi. 1263 ft.	LINCOLN PROPERTIES DEVELOPMENT, LLC 531 BROADWAY BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	AST	A100294838 N/A
Relative: Higher			
X182 WSW 1/8-1/4 0.240 mi. 1265 ft.	429 MARCY AVENUE 429 MARCY AVENUE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	UST	U004045550 N/A
Relative: Lower	UST Date Tank Closed: 2005-04-14 00:00:00 Date Tank Closed: 2005-04-14 00:00:00 Date Tank Closed: 2005-04-14 00:00:00 Date Tank Closed: 2005-04-14 00:00:00 Date Tank Closed: 2005-04-14 00:00:00		
X183 WSW 1/8-1/4 0.241 mi. 1272 ft.	CGS BUILDER MARCY AVE BROOKLYN, NY 11211  <a href="#">Click here for full text details</a>	RCRA-NonGen MANIFEST	1008404389 NYR000133769
Relative: Lower			
X184 WSW 1/8-1/4 0.241 mi. 1275 ft.	UNKNOWN RESIDENCE 420 MARCY AVE BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS MANIFEST NY Spills	S106970053 N/A
Relative: Lower	LTANKS Date Closed: 11/4/2005  NY Spills Date Closed: 7/26/2005		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
X185 West 1/8-1/4 0.243 mi. 1283 ft.	M.B.M. MFG. 70 LORIMER STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	UST	U004047473 N/A
Relative: Higher	<hr/>		
186 WSW 1/4-1/2 0.293 mi. 1548 ft.	CONSTRUCTION SITE 5 WALTON AVE BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS HIST LTANKS	S102960158 N/A
Relative: Lower	<hr/>		
	LTANKS Date Closed: 3/7/2003		
	HIST LTANKS Date Closed: / /		
AA187 NW 1/4-1/2 0.309 mi. 1633 ft.	ENGINE CO. 216/LADD. CO. 108 FDNY -DDC 187 UNION AVENUE BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS NY Spills NY Hist Spills	S104073416 N/A
Relative: Higher	<hr/>		
	LTANKS Date Closed: 1/13/2005		
AA188 NW 1/4-1/2 0.309 mi. 1633 ft.	187 UNION AVENUE / BROOKL 187 UNION AVE BROOKLYN, NY  <a href="#">Click here for full text details</a>	HIST LTANKS	S102662540 N/A
Relative: Higher	<hr/>		
	HIST LTANKS Date Closed: / /		
AB189 East 1/4-1/2 0.313 mi. 1655 ft.	24 HUMBOLDT ST 24 HUMBOLDT ST BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS NY Spills NY Hist Spills	S102143036 N/A
Relative: Higher	<hr/>		
	LTANKS Date Closed: 11/2/2005		
	NY Spills Date Closed: 11/19/2007		

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**24 HUMBOLDT ST (Continued)**

**S102143036**

Date Closed: 11/16/1994  
 Date Closed: 6/8/1994  
 Date Closed: 12/29/1992  
 Date Closed: 7/7/1992  
 Date Closed: 9/6/1994

**AB190**  
 East  
 1/4-1/2  
 0.313 mi.  
 1655 ft.

**BUSHWICK HOUSES**  
**24 HUMBOLDT STREET**  
**BROOKLYN, NY**

**HIST LTANKS** **S101658432**  
**NY Hist Spills** **N/A**

[Click here for full text details](#)

Relative:  
 Higher

**HIST LTANKS**  
 Date Closed: / /

**AC191**  
 NW  
 1/4-1/2  
 0.323 mi.  
 1707 ft.

**306 RUTLEDGE ST.**  
**306 RUTLEDGE ST.**  
**WILLIAMSBURG, NY**

**HIST LTANKS** **S106703614**  
**N/A**

[Click here for full text details](#)

Relative:  
 Higher

**HIST LTANKS**  
 Date Closed: / /

**192**  
 NNW  
 1/4-1/2  
 0.326 mi.  
 1720 ft.

**APARTMENT BLDG**  
**30 MONTROSE AV**  
**BROOKLYN, NY**

**HIST LTANKS** **S105055138**  
**NY Spills** **N/A**

[Click here for full text details](#)

Relative:  
 Higher

**HIST LTANKS**  
 Date Closed: / /

**NY Spills**

Date Closed: 9/4/2009  
 Date Closed: 4/22/2011

**AA193**  
 NW  
 1/4-1/2  
 0.327 mi.  
 1729 ft.

**JOHNSON AVE. & BROADWAY**  
**JOHNSON AVE AND BROADWAY**  
**BROOKLYN, NY**

**LTANKS** **S100560449**  
**HIST LTANKS** **N/A**

[Click here for full text details](#)

Relative:  
 Higher

**LTANKS**  
 Date Closed: 8/13/1993

**HIST LTANKS**  
 Date Closed: 08/13/93

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
AD194 West 1/4-1/2 0.335 mi. 1771 ft.	<b>UNITED STATES ARMORY</b> 355 MARCY AVE BROOKLYN, NY  <a href="#">Click here for full text details</a>	<b>LTANKS</b> <b>MANIFEST</b> <b>NY Spills</b> <b>NY Hist Spills</b>	<b>S103569544</b> <b>N/A</b>
Relative: Higher	<b>LTANKS</b> Date Closed: 10/7/1992  <b>NY Spills</b> Date Closed: 2/21/1996		
AD195 West 1/4-1/2 0.335 mi. 1771 ft.	<b>ARMY NAT'L GUARD BUILDING</b> 355 MARCY AVENUE BROOKLYN, NY  <a href="#">Click here for full text details</a>	<b>HIST LTANKS</b> <b>NY Hist Spills</b>	<b>S102239181</b> <b>N/A</b>
Relative: Higher	<b>HIST LTANKS</b> Date Closed: 10/07/92		
AE196 ENE 1/4-1/2 0.339 mi. 1791 ft.	<b>BORINQUEN PLAZA</b> 110 HUMBOLDT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	<b>LTANKS</b> <b>HIST LTANKS</b> <b>UST</b> <b>HIST UST</b>	<b>U002034215</b> <b>N/A</b>
Relative: Higher	<b>LTANKS</b> Date Closed: 11/10/2010  <b>HIST LTANKS</b> Date Closed: / /  <b>UST</b> Date Tank Closed: 2000-03-01 00:00:00		
AC197 NW 1/4-1/2 0.343 mi. 1812 ft.	<b>306 RUTLEDGE ST/BKLYN</b> 306 RUTLEDGE STREET NEW YORK CITY, NY  <a href="#">Click here for full text details</a>	<b>HIST LTANKS</b>	<b>S106703313</b> <b>N/A</b>
Relative: Higher	<b>HIST LTANKS</b> Date Closed: / /		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
AC198 NW 1/4-1/2 0.343 mi. 1812 ft.	BROOKLYN NORTH 3+3A SITE 306 RUTLEDGE ST BROOKLYN, NY  <a href="#">Click here for full text details</a>	HIST LTANKS	S102233321 N/A
Relative: Higher	HIST LTANKS Date Closed: / /		
AC199 NW 1/4-1/2 0.343 mi. 1812 ft.	NYC DDC 306 RUTLEDGE ST BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS HIST LTANKS NY Spills	S104621574 N/A
Relative: Higher	LTANKS Date Closed: 3/2/2005 Date Closed: 3/2/2005 Date Closed: 6/23/2008  HIST LTANKS Date Closed: / /		
AA200 NNW 1/4-1/2 0.348 mi. 1837 ft.	211 UNION AVE. DIESEL LEA 211 UNION AVE NEW YORK CITY, NY  <a href="#">Click here for full text details</a>	HIST LTANKS	S100144696 N/A
Relative: Higher	HIST LTANKS Date Closed: / /		
AE201 ENE 1/4-1/2 0.350 mi. 1849 ft.	COOPER TANK & WELDING CO. 222-26 SIEGAL AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	SWF/LF	S105841714 N/A
Relative: Higher			
AE202 NE 1/4-1/2 0.350 mi. 1850 ft.	BORINQUEN PLAZA 120 HUMBOLDT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	LTANKS HIST LTANKS UST HIST UST	U002034216 N/A
Relative: Higher	LTANKS Date Closed: 10/28/2010  HIST LTANKS		

MAP FINDINGS

Map ID			
Direction			
Distance			
Elevation	Site	Database(s)	EDR ID Number EPA ID Number

**BORINQUEN PLAZA (Continued)**

U002034216

Date Closed: / /

**UST**

Date Tank Closed: 2000-03-01 00:00:00

AA203  
NNW  
1/4-1/2  
0.352 mi.  
1856 ft.

**90 PRECINCT NYPD -DDC  
209 UNION AVENUE  
BROOKLYN, NY**

**LTANKS  
NY Spills  
NY Hist Spills**

**S102238705  
N/A**

[Click here for full text details](#)

Relative:  
Higher

**LTANKS**

Date Closed: 1/10/2005

**NY Spills**

Date Closed: 4/4/2005

204  
WSW  
1/4-1/2  
0.355 mi.  
1872 ft.

**SLATTERY J B & BROS INC  
171-187 WALLABOUT ST  
BROOKLYN, NY 11206**

**CERC-NFRAP  
RCRA-NonGen  
FINDS  
MANIFEST**

**1000421759  
NYD001288349**

[Click here for full text details](#)

Relative:  
Lower

205  
ENE  
1/4-1/2  
0.357 mi.  
1885 ft.

**130 MOORE ST  
BROOKLYN, NY**

**LTANKS**

**S105999336  
N/A**

[Click here for full text details](#)

Relative:  
Higher

**LTANKS**

Date Closed: 7/2/2003

206  
NNW  
1/4-1/2  
0.359 mi.  
1896 ft.

**209 UNION AVENUE  
209 UNION AVE - 90TH PCT  
BROOKLYN, NY**

**LTANKS  
HIST LTANKS**

**S102672924  
N/A**

[Click here for full text details](#)

Relative:  
Higher

**LTANKS**

Date Closed: 5/18/1995

**HIST LTANKS**

Date Closed: 05/18/95

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
AE207 NE 1/4-1/2 0.363 mi. 1914 ft.	VERINQUIN 130 HUMBOLT ST BROOKLYN, NY  <a href="#">Click here for full text details</a>	HIST LTANKS	S104191731 N/A
Relative: Higher	HIST LTANKS Date Closed: / /		
AE208 NE 1/4-1/2 0.363 mi. 1914 ft.	BORINQUEN PLAZA 130 HUMBOLDT STREET BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS NY Spills	S108058411 N/A
Relative: Higher	LTANKS Date Closed: 1/8/2004 Date Closed: 1/8/2004  NY Spills Date Closed: 8/15/2006 Date Closed: 11/14/1994		
AE209 NE 1/4-1/2 0.363 mi. 1914 ft.	BORINQUEN HOUSES 130 HUMBOLDT STREET BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	HIST LTANKS UST HIST UST	U001840744 N/A
Relative: Higher	HIST LTANKS Date Closed: / /  UST Date Tank Closed: 2000-07-01 00:00:00		
AE210 ENE 1/4-1/2 0.366 mi. 1931 ft.	BORINQUEN HOUSES 155 SIEGEL STREET BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS HIST LTANKS	S102959968 N/A
Relative: Higher	LTANKS Date Closed: 1/12/1998 Date Closed: 7/12/2010  HIST LTANKS Date Closed: / /		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
AE211 ENE 1/4-1/2 0.366 mi. 1931 ft.	<b>BORINQUEN PLAZA</b> 155 SIEGEL STREET NEW YORK CITY, NY  <a href="#">Click here for full text details</a>	HIST LTANKS	S100146915 N/A
Relative: Higher	HIST LTANKS Date Closed: 01/12/98		
212 WSW 1/4-1/2 0.386 mi. 2040 ft.	<b>NOSTRAND AVE &amp; FLUSHING A</b> NOSTRAND AVE & FLUSHING A BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS HIST LTANKS	S100782053 N/A
Relative: Lower	LTANKS Date Closed: 11/8/1993  HIST LTANKS Date Closed: 11/08/93		
AF213 SW 1/4-1/2 0.409 mi. 2162 ft.	<b>MARCIE HOUSES - BLDG 9</b> NOSTRAND AND PARK AVE BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS HIST LTANKS	S105054636 N/A
Relative: Higher	LTANKS Date Closed: 12/9/2003  HIST LTANKS Date Closed: / /		
AF214 SW 1/4-1/2 0.409 mi. 2162 ft.	<b>MARCY HOUSES</b> 603 PARK AVE BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS HIST LTANKS HIST AST	S101102893 N/A
Relative: Higher	LTANKS Date Closed: 12/11/2007 Date Closed: 12/9/2005 Date Closed: 12/11/2007  HIST LTANKS Date Closed: / / Date Closed: / / Date Closed: / / Date Closed: / /		

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
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<b>AG215</b> <b>ENE</b> <b>1/4-1/2</b> <b>0.422 mi.</b> <b>2229 ft.</b>  <b>Relative:</b> <b>Higher</b>	<b>BORINQUEN HOUSES</b> <b>330 BUSHWICK AVENUE</b> <b>BROOKLYN, NY 11206</b>  <a href="#">Click here for full text details</a>  <b>LTANKS</b> Date Closed: 12/9/2005  <b>HIST LTANKS</b> Date Closed: / / Date Closed: / /  <b>UST</b> Date Tank Closed: 2000-07-01 00:00:00  <b>NY Spills</b> Date Closed: 10/28/2010	<b>LTANKS</b> <b>HIST LTANKS</b> <b>UST</b> <b>HIST UST</b> <b>NY Spills</b>	<b>U002034218</b> <b>N/A</b>
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<b>AG216</b> <b>ENE</b> <b>1/4-1/2</b> <b>0.429 mi.</b> <b>2265 ft.</b>  <b>Relative:</b> <b>Higher</b>	<b>BORINQUEN HOUSES</b> <b>300 BUSHWICK AVENUE</b> <b>BROOKLYN, NY 11206</b>  <a href="#">Click here for full text details</a>  <b>LTANKS</b> Date Closed: 2/2/1998 Date Closed: 1/13/1998 Date Closed: 2/6/2004  <b>HIST LTANKS</b> Date Closed: 02/02/98  <b>UST</b> Date Tank Closed: 2000-07-01 00:00:00	<b>LTANKS</b> <b>HIST LTANKS</b> <b>UST</b> <b>HIST UST</b>	<b>U002034217</b> <b>N/A</b>
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<b>AG217</b> <b>ENE</b> <b>1/4-1/2</b> <b>0.429 mi.</b> <b>2265 ft.</b>  <b>Relative:</b> <b>Higher</b>	<b>BORINQUEN HOUSE</b> <b>300 BUSHWICK AVENUE</b> <b>BROOKLYN, NY</b>  <a href="#">Click here for full text details</a>  <b>HIST LTANKS</b> Date Closed: / /	<b>HIST LTANKS</b>	<b>S102959975</b> <b>N/A</b>
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MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
AG218 ENE 1/4-1/2 0.429 mi. 2265 ft.	BORINQUEN PLAZA 300 BUSHWICK AVENUE NEW YORK CITY, NY  <a href="#">Click here for full text details</a>	HIST LTANKS	S100146685 N/A
Relative: Higher	HIST LTANKS Date Closed: 01/13/98		
AH219 SW 1/4-1/2 0.430 mi. 2269 ft.	BORDEN CHEMICAL 56 NOSTRAND AVE. BROOKLYN, NY  <a href="#">Click here for full text details</a>	HSWDS	S108146439 N/A
Relative: Higher			
AH220 SW 1/4-1/2 0.430 mi. 2269 ft.	BORDEN CHEMICAL ADHESIVES & CHEM 56 NOSTRAND AVE BROOKLYN, NY 11205  <a href="#">Click here for full text details</a>	CERC-NFRAP RCRA-NonGen FINDS	1000186343 NYD012497335
Relative: Higher			
221 South 1/4-1/2 0.438 mi. 2312 ft.	TOMPKINS HOUSES 921 MYRTLE AVENUE BROOKLYN, NY  <a href="#">Click here for full text details</a>	HIST LTANKS	S100781878 N/A
Relative: Higher	HIST LTANKS Date Closed: / /		
222 ENE 1/4-1/2 0.439 mi. 2318 ft.	BUSHWICK 372 BUSHWICK AVE BROOKLYN, NY  <a href="#">Click here for full text details</a>	HIST LTANKS	S100145717 N/A
Relative: Higher	HIST LTANKS Date Closed: / /		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
223 WSW 1/4-1/2 0.439 mi. 2319 ft.	204 WALLABOUT /NEW ERA 204 WALLABOUT NEW YORK CITY, NY  <a href="#">Click here for full text details</a>	LTANKS HIST LTANKS	S106703218 N/A
Relative: Lower	LTANKS Date Closed: 3/5/2003  HIST LTANKS Date Closed: / /		
224 ESE 1/4-1/2 0.447 mi. 2360 ft.	GONZALEZ RESIDENCE 29 BEAVER ST BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS	S107658820 N/A
Relative: Higher	LTANKS Date Closed: 3/21/2006		
225 WSW 1/4-1/2 0.448 mi. 2365 ft.	30 WARSOFF PLACE/BKLYN 30 WARSOFF PLACE NEW YORK CITY, NY  <a href="#">Click here for full text details</a>	LTANKS HIST LTANKS	S100144944 N/A
Relative: Higher	LTANKS Date Closed: 9/30/1992  HIST LTANKS Date Closed: 09/30/92		
226 WSW 1/4-1/2 0.471 mi. 2487 ft.	TECHTRONICS ECOLOGICAL CORP 8 WALWORTH ST NEW YORK, NY 11205  <a href="#">Click here for full text details</a>	CORRACTS RCRA-NonGen FINDS MANIFEST	1000244308 NYD000824334
Relative: Higher			
227 SSE 1/4-1/2 0.478 mi. 2524 ft.	BEDFORD AUTO SALES 984 MYRTLE AVE BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	SWF/LF	S108145701 N/A
Relative: Higher			

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
228 WNW 1/4-1/2 0.479 mi. 2529 ft.	<b>GULF STATION 70227 TTF</b> 189 PENN. AVE BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS	S110045410 N/A
Relative: Higher			
AI229 North 1/4-1/2 0.482 mi. 2544 ft.	<b>WILLIAMSBURGH HOUSES</b> 125 STAGG WALK BROOKLYN, NY 11206  <a href="#">Click here for full text details</a>	HIST LTANKS UST HIST UST AST HIST AST	U001840731 N/A
Relative: Higher	<b>HIST LTANKS</b> Date Closed: / /		
	<b>UST</b> Date Tank Closed: 2001-05-01 00:00:00 Date Tank Closed: 2001-05-01 00:00:00		
AI230 North 1/4-1/2 0.482 mi. 2544 ft.	<b>WILLIAMSBURGH HOUSES</b> 211 STAGGWALK BROOKLYN, NY  <a href="#">Click here for full text details</a>	HIST LTANKS	S103558693 N/A
Relative: Higher	<b>HIST LTANKS</b> Date Closed: / /		
AI231 North 1/4-1/2 0.482 mi. 2544 ft.	<b>WILLIAMSBURG HOUSES</b> 125 STAGG WALK BROOKLYN, NY  <a href="#">Click here for full text details</a>	LTANKS HIST LTANKS NY Spills NY Hist Spills	S102672842 N/A
Relative: Higher	<b>LTANKS</b> Date Closed: 3/29/1999 Date Closed: 1/8/2004 Date Closed: 12/2/2005 Date Closed: 1/8/2004		
	<b>HIST LTANKS</b> Date Closed: / / Date Closed: / / Date Closed: 03/29/99		
	<b>NY Spills</b> Date Closed: 4/3/1995		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
232 WSW 1/2-1 0.622 mi. 3285 ft.	SKILLMAN STATION SKILLMAN ST. FLUSHING AND BEDFORD AVES., AND PARK ST BROOKLYN, NY 11205	Manufactured Gas Plants	1008407900 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
233 WSW 1/2-1 0.641 mi. 3383 ft.	NASSAU GAS SKILLMAN AVE BROOKLYN, NY 11205	Manufactured Gas Plants	1008407895 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
234 WSW 1/2-1 0.755 mi. 3984 ft.	RUTLEDGE STATION RUTLEDGE ST. WYTHE AND KENT AVE AND WALLABOUT AND HEYARD ST BROOKLYN, NY 11205	Manufactured Gas Plants	1008407898 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
235 NE 1/2-1 0.799 mi. 4219 ft.	SCHOLES ST. STATION SCHOLES ST 7 BOGART STS. MESSEROLE AND MORGAN AVE. BROOKLYN, NY 11206	Manufactured Gas Plants	1008407899 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
236 West 1/2-1 0.832 mi. 4394 ft.	KEAP ST. STATION KEAP ST. WYTHE AVE. HOOPER ST. AND KENT AVE BROOKLYN, NY 11211	Manufactured Gas Plants	1008407893 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		
237 NNW 1/2-1 0.901 mi. 4758 ft.	BQE/ANSBACHER COLOR & DYE FACTORY MEEKER AVENUE BROOKLYN, NY	SHWS	S106780917 N/A
Relative: Higher	<a href="#">Click here for full text details</a>		

SHWS

Class Code: Does not present a significant threat to the public health or the environment - action may be deferred.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
NY	AIRS	Air Emissions Data	Department of Environmental Conservation	12/31/2010	08/24/2011	11/03/2011
NY	AST	Petroleum Bulk Storage	Department of Environmental Conservation	01/03/2012	01/05/2012	01/25/2012
NY	BROWNFIELDS	Brownfields Site List	Department of Environmental Conservation	02/22/2012	02/24/2012	03/28/2012
NY	CBS	Chemical Bulk Storage Site Listing	Department of Environmental Conservation	01/03/2012	01/05/2012	01/27/2012
NY	CBS AST	Chemical Bulk Storage Database	NYSDEC	01/01/2002	02/20/2002	03/22/2002
NY	CBS UST	Chemical Bulk Storage Database	NYSDEC	01/01/2002	02/20/2002	03/22/2002
NY	COAL ASH	Coal Ash Disposal Site Listing	Department of Environmental Conservation	01/11/2012	01/11/2012	01/27/2012
NY	DEL SHWS	Delisted Registry Sites	Department of Environmental Conservation	02/22/2012	02/24/2012	03/28/2012
NY	DRYCLEANERS	Registered Drycleaners	Department of Environmental Conservation	12/20/2011	12/30/2011	01/25/2012
NY	E DESIGNATION	E DESIGNATION SITE LISTING	New York City Department of City Planning	10/05/2011	01/03/2012	01/25/2012
NY	ENG CONTROLS	Registry of Engineering Controls	Department of Environmental Conservation	02/22/2012	02/24/2012	03/28/2012
NY	ERP	Environmental Restoration Program Listing	Department of Environmental Conservation	02/22/2012	02/24/2012	03/28/2012
NY	FINANCIAL ASSURANCE 1	Financial Assurance Information Listing	Department of Environmental Conservation	01/10/2012	01/11/2012	01/27/2012
NY	FINANCIAL ASSURANCE 2	Financial Assurance Information Listing	Department of Environmental Conservation	10/31/2008	11/25/2008	12/11/2008
NY	HIST AST	Historical Petroleum Bulk Storage Database	Department of Environmental Conservation	01/01/2002	06/02/2006	07/20/2006
NY	HIST LTANKS	Listing of Leaking Storage Tanks	Department of Environmental Conservation	01/01/2002	07/08/2005	07/14/2005
NY	HIST SPILLS	SPILLS Database	Department of Environmental Conservation	01/01/2002	07/08/2005	07/14/2005
NY	HIST UST	Historical Petroleum Bulk Storage Database	Department of Environmental Conservation	01/01/2002	06/02/2006	07/20/2006
NY	HSWDS	Hazardous Substance Waste Disposal Site Inventory	Department of Environmental Conservation	01/01/2003	10/20/2006	11/30/2006
NY	INST CONTROL	Registry of Institutional Controls	Department of Environmental Conservation	02/22/2012	02/24/2012	03/28/2012
NY	LIENS	Spill Liens Information	Office of the State Comptroller	02/14/2012	02/16/2012	03/09/2012
NY	LTANKS	Spills Information Database	Department of Environmental Conservation	02/22/2012	02/24/2012	03/28/2012
NY	MOSF	Major Oil Storage Facility Site Listing	Department of Environmental Conservation	01/03/2012	01/05/2012	01/27/2012
NY	MOSF AST	Major Oil Storage Facilities Database	NYSDEC	01/01/2002	02/20/2002	03/22/2002
NY	MOSF UST	Major Oil Storage Facilities Database	NYSDEC	01/01/2002	02/20/2002	03/22/2002
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/10/2012	02/09/2012	03/09/2012
NY	RES DECL	Restrictive Declarations Listing	NYC Department of City Planning	11/18/2010	12/23/2010	02/11/2011
NY	SHWS	Inactive Hazardous Waste Disposal Sites in New York State	Department of Environmental Conservation	02/22/2012	02/24/2012	03/28/2012
NY	SPDES	State Pollutant Discharge Elimination System	Department of Environmental Conservation	10/18/2011	10/19/2011	11/15/2011
NY	SPILLS	Spills Information Database	Department of Environmental Conservation	02/22/2012	02/24/2012	03/28/2012
NY	SWF/LF	Facility Register	Department of Environmental Conservation	01/11/2012	01/11/2012	01/27/2012
NY	SWRCY	Registered Recycling Facility List	Department of Environmental Conservation	01/11/2012	01/11/2012	01/27/2012
NY	SWTIRE	Registered Waste Tire Storage & Facility List	Department of Environmental Conservation	08/01/2006	11/15/2006	11/30/2006
NY	TANKS	Storage Tank Facility Listing	Department of Environmental Conservation	01/03/2012	01/05/2012	01/27/2012
NY	UIC	Underground Injection Control Wells	Department of Environmental Conservation	12/12/2011	12/14/2011	01/24/2012
NY	UST	Petroleum Bulk Storage (PBS) Database	Department of Environmental Conservation	01/03/2012	01/05/2012	01/25/2012
NY	VAPOR REOPENED	Vapor Intrusion Legacy Site List	Department of Environmental Conservation	08/01/2011	08/26/2011	09/16/2011
NY	VCP	Voluntary Cleanup Agreements	Department of Environmental Conservation	02/22/2012	02/24/2012	03/28/2012
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2009	03/01/2011	05/02/2011
US	CERCLIS	Comprehensive Environmental Response, Compensation, and Liab	EPA	12/27/2011	02/27/2012	03/12/2012
US	CERCLIS-NFRAP	CERCLIS No Further Remedial Action Planned	EPA	12/28/2011	02/27/2012	03/12/2012
US	COAL ASH DOE	Sleam-Electric Plan Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	08/17/2010	01/03/2011	03/21/2011
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	12/01/2011	01/25/2012	03/01/2012
US	CORRACTS	Corrective Action Report	EPA	08/19/2011	08/31/2011	01/10/2012
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DELISTED NPL	National Priority List Deletions	EPA	09/07/2011	10/12/2011	03/01/2012

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transportation, Office of Pipeli	07/29/2011	08/09/2011	11/11/2011
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	10/03/2011	10/04/2011	11/11/2011
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	12/10/2010	01/11/2011	02/16/2011
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	01/01/2010	02/16/2010	04/12/2010
US	FINDS	Facility Index System/Facility Registry System	EPA	10/23/2011	12/13/2011	03/01/2012
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	12/31/2009	08/12/2010	12/02/2010
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	10/04/2011	10/04/2011	11/11/2011
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	07/20/2011	11/10/2011	01/10/2012
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/01/2011	11/01/2011	11/11/2011
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	11/02/2011	11/04/2011	11/11/2011
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	12/14/2011	12/15/2011	01/10/2012
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	09/12/2011	09/13/2011	11/11/2011
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	11/01/2011	11/21/2011	01/10/2012
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	08/18/2011	08/19/2011	09/13/2011
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	12/05/2011	12/07/2011	01/10/2012
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2005	12/08/2006	01/11/2007
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/01/2011	11/01/2011	11/11/2011
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	11/02/2011	11/04/2011	11/11/2011
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	12/14/2011	12/15/2011	01/10/2012
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	07/01/2011	08/26/2011	09/13/2011
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	05/10/2011	05/11/2011	06/14/2011
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	11/01/2011	11/21/2011	01/10/2012
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	08/18/2011	08/19/2011	09/13/2011
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	11/28/2011	11/29/2011	01/10/2012
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	08/04/2011	10/04/2011	11/11/2011
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisiting	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	09/09/2011	09/16/2011	09/29/2011
US	LUCIS	Land Use Control Information System	Department of the Navy	12/09/2005	12/11/2006	01/11/2007
US	MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	08/18/2011	09/08/2011	09/29/2011
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	06/21/2011	07/15/2011	09/13/2011
US	Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	NPL	National Priority List	EPA	09/07/2011	10/12/2011	03/01/2012
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	11/01/2010	11/10/2010	02/16/2011
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	02/01/2011	10/19/2011	01/10/2012
US	Proposed NPL	Proposed National Priority List Sites	EPA	09/07/2011	10/12/2011	03/01/2012
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	01/10/2012	01/12/2012	03/01/2012
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	11/10/2011	01/05/2012	03/12/2012

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	11/10/2011	01/05/2012	03/12/2012
US	RCRA-NonGen	RCRA - Non Generators	Environmental Protection Agency	11/10/2011	01/05/2012	03/12/2012
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	11/10/2011	01/05/2012	03/12/2012
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	11/10/2011	01/05/2012	03/12/2012
US	ROD	Records Of Decision	EPA	09/28/2011	12/14/2011	01/10/2012
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	03/07/2011	03/09/2011	05/02/2011
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2009	09/01/2011	01/10/2012
US	TSCA	Toxic Substances Control Act	EPA	12/31/2006	09/29/2010	12/02/2010
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	09/14/2010	10/07/2011	03/01/2012
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	06/27/2011	06/27/2011	09/13/2011
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	10/07/2011	12/09/2011	01/10/2012
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	12/30/2011	12/30/2011	01/10/2012
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	09/01/2007	11/19/2008	03/30/2009
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	12/30/2011	12/30/2011	01/10/2012
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	02/20/2012	02/20/2012	03/15/2012
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2010	07/20/2011	08/11/2011
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2009	01/26/2012	03/06/2012
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2010	06/24/2011	06/30/2011
VT	VT MANIFEST	Hazardous Waste Manifest Data	Department of Environmental Conservation	02/22/2012	02/28/2012	04/05/2012
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	12/31/2010	08/19/2011	09/15/2011
US	Oil/Gas Pipelines	GeoData Digital Line Graphs from 1:100,000-Scale Maps	USGS			
US	Electric Power Lines	Electric Power Transmission Line Data	Rextag Strategies Corp.			
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
NY	Daycare Centers	Sensitive Receptor: Day Care Providers	Department of Health			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
NY	State Wetlands	Freshwater Wetlands	Department of Environmental Conservation			
US	USGS 7.5' Topographic Map	Scanned Digital USGS 7.5' Topographic Map (DRG)	USGS			

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**St**   **Acronym**   **Full Name**   **Government Agency**   **Gov Date**   **Arvl. Date**   **Active Date**

**STREET AND ADDRESS INFORMATION**

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## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

78 THROOP AVENUE  
78 THROOP AVENUE  
BROOKLYN, NY 11206

### **TARGET PROPERTY COORDINATES**

Latitude (North):	40.7023 - 40° 42' 8.28"
Longitude (West):	73.9468 - 73° 56' 48.48"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	588976.2
UTM Y (Meters):	4506032.5
Elevation:	13 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

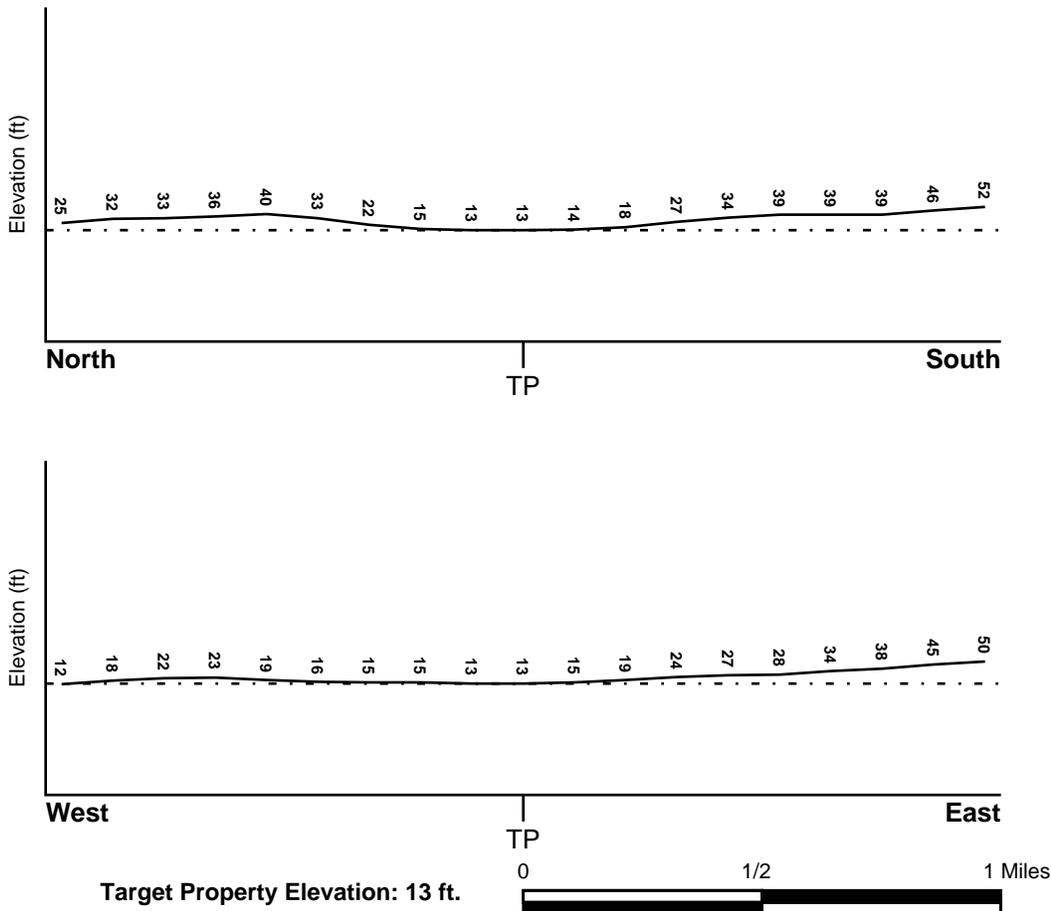
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WNW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Target Property County</u>	FEMA Flood <u>Electronic Data</u>
KINGS, NY	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 360497 - FEMA DFIRM Flood data

Additional Panels in search area:

- 3604970048B - FEMA Q3 Flood data
- 3604970055B - FEMA Q3 Flood data
- 3604970056B - FEMA Q3 Flood data
- 3604970063B - FEMA Q3 Flood data
- 3604970064B - FEMA Q3 Flood data

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	NWI Electronic <u>Data Coverage</u>
BROOKLYN	YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### ***Site-Specific Hydrogeological Data\*:***

Search Radius:	1.25 miles
Location Relative to TP:	1 - 2 Miles WSW
Site Name:	Naval Station Ny
Site EPA ID Number:	NY5170022250
Groundwater Flow Direction:	NOT AVAILABLE.
Measured Depth to Water:	14 feet in a well located 1 mile southeast of the site.
Hydraulic Connection:	Information is not available about the hydraulic connection between the surficial aquifer (upper glacial till) and underlying aquifer(s). Bedrock is present at an estimated depth of 100 feet.
Sole Source Aquifer:	A sole source aquifer is present at or near the site
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### ROCK STRATIGRAPHIC UNIT

Era: Mesozoic  
System: Cretaceous  
Series: Upper Cretaceous  
Code: uK (decoded above as Era, System & Series)

#### GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

## OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam  
loamy sand  
sandy loam  
fine sandy loam

Surficial Soil Types: silt loam  
loamy sand  
sandy loam  
fine sandy loam

Shallow Soil Types: sandy loam

Deeper Soil Types: unweathered bedrock  
very gravelly - loamy sand  
stratified  
sandy loam

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
_____	_____	_____

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS2118628	0 - 1/8 Mile ESE
A2	USGS2118572	1/8 - 1/4 Mile SSW
A3	USGS2479175	1/8 - 1/4 Mile SSW
A4	USGS2118574	1/8 - 1/4 Mile SSW
A5	USGS2118573	1/8 - 1/4 Mile SSW
A6	USGS2118770	1/8 - 1/4 Mile SSW
A7	USGS2574666	1/8 - 1/4 Mile SW
A8	USGS2118771	1/8 - 1/4 Mile SSW
A9	USGS2118772	1/8 - 1/4 Mile SSW
A10	USGS2113402	1/8 - 1/4 Mile SW
A11	USGS2113403	1/8 - 1/4 Mile SW
12	USGS2118729	1/8 - 1/4 Mile SSW
A13	USGS2118750	1/8 - 1/4 Mile SW
14	USGS2118728	1/8 - 1/4 Mile SSE
B15	USGS2118752	1/8 - 1/4 Mile SW
B16	USGS2118751	1/8 - 1/4 Mile SW
B17	USGS2118730	1/8 - 1/4 Mile SSW
C18	USGS2118659	1/8 - 1/4 Mile West
D19	USGS2118598	1/4 - 1/2 Mile WSW
C20	USGS2118660	1/4 - 1/2 Mile West
D21	USGS2574667	1/4 - 1/2 Mile WSW
E22	USGS2118395	1/4 - 1/2 Mile NNE
E23	USGS2118415	1/4 - 1/2 Mile NNE
24	USGS2118356	1/4 - 1/2 Mile NW
F25	USGS2118856	1/4 - 1/2 Mile SW
26	USGS2118249	1/4 - 1/2 Mile North
27	USGS2118444	1/2 - 1 Mile NNE
F28	USGS2118835	1/2 - 1 Mile SW
F29	USGS2118842	1/2 - 1 Mile SW
G30	USGS2118414	1/2 - 1 Mile NE
31	USGS2118416	1/2 - 1 Mile NW
G32	USGS2118426	1/2 - 1 Mile NE
H33	USGS2118597	1/2 - 1 Mile East
H34	USGS2118596	1/2 - 1 Mile East
I35	USGS2118387	1/2 - 1 Mile ENE
36	USGS2118862	1/2 - 1 Mile ESE
J37	USGS2118312	1/2 - 1 Mile NNE
J38	USGS2118311	1/2 - 1 Mile NNE
39	USGS2118514	1/2 - 1 Mile WNW
K40	USGS2118627	1/2 - 1 Mile East
K41	USGS2118626	1/2 - 1 Mile East
I42	USGS2118386	1/2 - 1 Mile ENE
43	USGS2118796	1/2 - 1 Mile SW
44	USGS2118298	1/2 - 1 Mile NNW
45	USGS2118401	1/2 - 1 Mile WNW
46	USGS2118960	1/2 - 1 Mile South
K47	USGS2118647	1/2 - 1 Mile East
K48	USGS2118595	1/2 - 1 Mile East
49	USGS2118385	1/2 - 1 Mile ENE
50	USGS2118467	1/2 - 1 Mile West
51	USGS2118613	1/2 - 1 Mile West
52	USGS2118658	1/2 - 1 Mile East

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
L53	USGS2118769	1/2 - 1 Mile East
54	USGS2118807	1/2 - 1 Mile SE
55	USGS2118289	1/2 - 1 Mile NE
56	USGS2118491	1/2 - 1 Mile East
57	USGS2118400	1/2 - 1 Mile ENE
58	USGS2118834	1/2 - 1 Mile ESE
M59	USGS2118183	1/2 - 1 Mile NNW
L60	USGS2118594	1/2 - 1 Mile East
M61	USGS2118190	1/2 - 1 Mile NNW
62	USGS2118637	1/2 - 1 Mile West
63	USGS2118022	1/2 - 1 Mile NNE
65	USGS2118880	1/2 - 1 Mile SSE
66	USGS2118921	1/2 - 1 Mile SSW
67	USGS2118072	1/2 - 1 Mile North
68	USGS2118278	1/2 - 1 Mile WNW

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
64	NY0007257	1/2 - 1 Mile NNW

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

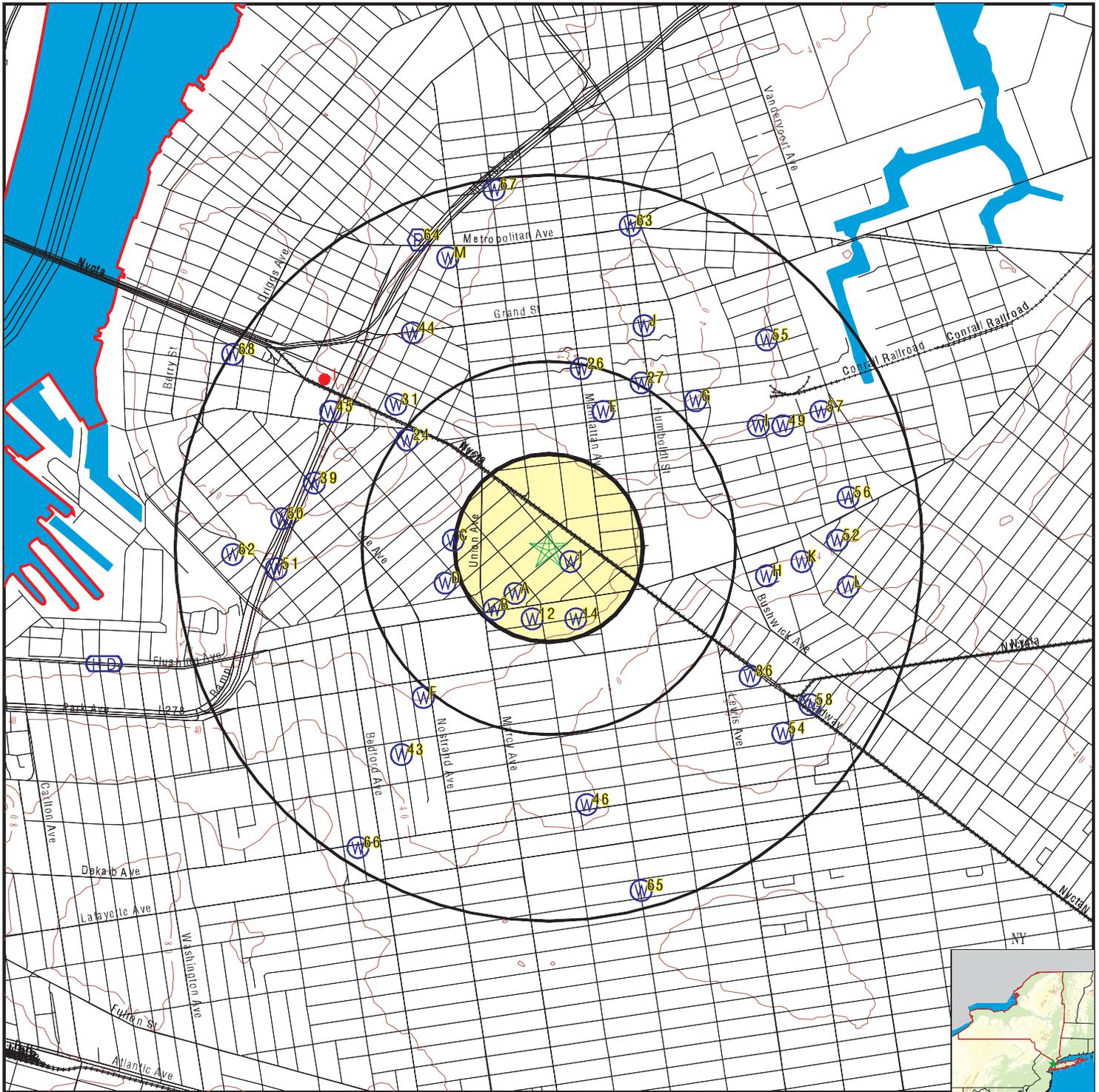
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## OTHER STATE DATABASE INFORMATION

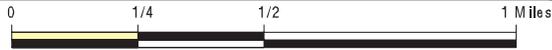
## STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	NYOG70000000029	1/2 - 1 Mile NW

# PHYSICAL SETTING SOURCE MAP - 3313729.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: 78 Throop Avenue  
 ADDRESS: 78 Throop Avenue  
 Brooklyn NY 11206  
 LAT/LONG: 40.7023 / 73.9468

CLIENT: Env. Business Consultants  
 CONTACT: Dominick Mosca  
 INQUIRY #: 3313729.2s  
 DATE: May 01, 2012 11:21 am

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
1 NW 1/2 - 1 Mile	<a href="#">Click here for full text details</a>	OIL_GAS	NYOG70000000029
1 ESE 0 - 1/8 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118628
A2 SSW 1/8 - 1/4 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118572
A3 SSW 1/8 - 1/4 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2479175
A4 SSW 1/8 - 1/4 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118574
A5 SSW 1/8 - 1/4 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118573
A6 SSW 1/8 - 1/4 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118770
A7 SW 1/8 - 1/4 Mile Lower	<a href="#">Click here for full text details</a>	FED USGS	USGS2574666
A8 SSW 1/8 - 1/4 Mile Lower	<a href="#">Click here for full text details</a>	FED USGS	USGS2118771

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
A9 SSW 1/8 - 1/4 Mile Lower	<a href="#">Click here for full text details</a>	FED USGS	USGS2118772
A10 SW 1/8 - 1/4 Mile Lower	<a href="#">Click here for full text details</a>	FED USGS	USGS2113402
A11 SW 1/8 - 1/4 Mile Lower	<a href="#">Click here for full text details</a>	FED USGS	USGS2113403
12 SSW 1/8 - 1/4 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118729
A13 SW 1/8 - 1/4 Mile Lower	<a href="#">Click here for full text details</a>	FED USGS	USGS2118750
14 SSE 1/8 - 1/4 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118728
B15 SW 1/8 - 1/4 Mile Lower	<a href="#">Click here for full text details</a>	FED USGS	USGS2118752
B16 SW 1/8 - 1/4 Mile Lower	<a href="#">Click here for full text details</a>	FED USGS	USGS2118751
B17 SSW 1/8 - 1/4 Mile Lower	<a href="#">Click here for full text details</a>	FED USGS	USGS2118730

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
C18 West 1/8 - 1/4 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118659
D19 WSW 1/4 - 1/2 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118598
C20 West 1/4 - 1/2 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118660
D21 WSW 1/4 - 1/2 Mile Lower	<a href="#">Click here for full text details</a>	FED USGS	USGS2574667
E22 NNE 1/4 - 1/2 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118395
E23 NNE 1/4 - 1/2 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118415
24 NW 1/4 - 1/2 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118356
F25 SW 1/4 - 1/2 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118856
26 North 1/4 - 1/2 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118249

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
27 NNE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118444
F28 SW 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118835
F29 SW 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118842
G30 NE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118414
31 NW 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118416
G32 NE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118426
H33 East 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118597
H34 East 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118596
I35 ENE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118387

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
36 ESE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118862
J37 NNE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118312
J38 NNE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118311
39 WNW 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118514
K40 East 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118627
K41 East 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118626
I42 ENE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118386
43 SW 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118796
44 NNW 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118298

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Direction	Distance	Elevation	Database	EDR ID Number
45	WNW	1/2 - 1 Mile	Higher	FED USGS	USGS2118401
		<a href="#">Click here for full text details</a>			
46	South	1/2 - 1 Mile	Higher	FED USGS	USGS2118960
		<a href="#">Click here for full text details</a>			
K47	East	1/2 - 1 Mile	Higher	FED USGS	USGS2118647
		<a href="#">Click here for full text details</a>			
K48	East	1/2 - 1 Mile	Higher	FED USGS	USGS2118595
		<a href="#">Click here for full text details</a>			
49	ENE	1/2 - 1 Mile	Higher	FED USGS	USGS2118385
		<a href="#">Click here for full text details</a>			
50	West	1/2 - 1 Mile	Higher	FED USGS	USGS2118467
		<a href="#">Click here for full text details</a>			
51	West	1/2 - 1 Mile	Higher	FED USGS	USGS2118613
		<a href="#">Click here for full text details</a>			
52	East	1/2 - 1 Mile	Higher	FED USGS	USGS2118658
		<a href="#">Click here for full text details</a>			
L53	East	1/2 - 1 Mile	Higher	FED USGS	USGS2118769
		<a href="#">Click here for full text details</a>			

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
54 SE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118807
55 NE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118289
56 East 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118491
57 ENE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118400
58 ESE 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118834
M59 NNW 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118183
L60 East 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118594
M61 NNW 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118190
62 West 1/2 - 1 Mile Higher	<a href="#">Click here for full text details</a>	FED USGS	USGS2118637

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Direction	Distance	Elevation	Database	EDR ID Number
63	NNE	1/2 - 1 Mile	Higher	FED USGS	USGS2118022
			<a href="#">Click here for full text details</a>		
64	NNW	1/2 - 1 Mile	Higher	FRDS PWS	NY0007257
			<a href="#">Click here for full text details</a>		
65	SSE	1/2 - 1 Mile	Higher	FED USGS	USGS2118880
			<a href="#">Click here for full text details</a>		
66	SSW	1/2 - 1 Mile	Higher	FED USGS	USGS2118921
			<a href="#">Click here for full text details</a>		
67	North	1/2 - 1 Mile	Higher	FED USGS	USGS2118072
			<a href="#">Click here for full text details</a>		
68	WNW	1/2 - 1 Mile	Higher	FED USGS	USGS2118278
			<a href="#">Click here for full text details</a>		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for KINGS County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.  
: Zone 2 indoor average level  $\geq$  2 pCi/L and  $\leq$  4 pCi/L.  
: Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for KINGS COUNTY, NY

Number of sites tested: 51

<u>Area</u>	<u>Average Activity</u>	<u>% &lt;4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% &gt;20 pCi/L</u>
Living Area	0.750 pCi/L	100%	0%	0%
Basement	1.370 pCi/L	88%	10%	2%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Freshwater Wetlands

Source: Department of Environmental Conservation

Telephone: 518-402-8961

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### New York Public Water Wells

Source: New York Department of Health

Telephone: 518-458-6731

## OTHER STATE DATABASE INFORMATION

#### Oil and Gas Well Database

Department of Environmental Conservation

Telephone: 518-402-8072

These files contain records, in the database, of wells that have been drilled.

### RADON

#### State Database: NY Radon

Source: Department of Health

Telephone: 518-402-7556

Radon Test Results

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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**ATTACHMENT B**  
**SOIL BORING LOGS**





# Geologic Boring Log Details



**ENVIRONMENTAL BUSINESS CONSULTANTS**

## B3 Boring Log

Location: Performed in the back third of the property.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: TRG1303	Address: 82 Throop Ave, Brooklyn, NY	Date	DTW
Drilling Company: LVS Inc		Groundwater depth	
Method: Geoprobe		8 feet	
Date Started: 5/13/2013	Date Completed: 5/13/2013	Well Specifications	
Completion Depth: 12 feet	Geologist Kevin Waters	None	

B3 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Recovery (in.)	Blow per 6 in.	PID (ppm)	
	0				
	to	32		0.0	32" - Brown sand with brick/concrete (fill material)
	4				<i>*Retained soil sample B3(0-2)</i>
	to	30		0.0	30" - Brown sand with fill material
	8				
	to	26		0.0	4" - Wet, brown sandy clay
	12				<i>*Retained soil sample B3(8-10)</i>

**ATTACHMENT C**  
**GROUNDWATER SAMPLING LOGS**

## GROUNDWATER PURGE / SAMPLE LOGS



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Well I.D.:     MW1    

Date:           5/14/2013          

Well Depth (from TOC):           18          

Equipment:           Check Valve          

Static Water Level (from TOC):           10.03          

Field Personnel:           Kevin Waters          

Height of Water in Well:           7.97          

Gallons of Water per Well Volume:           0.3188          

Flow Rate:           400ml/min.          

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (°F)	DO (mg/L)	Comments
0.00	11:49	400ml/min	0					turbid
2.00	11:51	400ml/min	0.22					turbid
4.00	11:53	400ml/min	0.44					turbid
6.00	11:55	400ml/min	0.66					turbid
8.00	11:57	400ml/min	0.88					clear
10.00	11:59	400ml/min	1.1					clear

Note 400 ml = 0.11 gallons

## GROUNDWATER PURGE / SAMPLE LOGS



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Well I.D.:     MW2    

Date: 5/14/2013

Well Depth (from TOC):     18    

Equipment: Check Valve

Static Water Level (from TOC):     12.34    

Field Personnel: Kevin Waters

Height of Water in Well:     5.66    

Gallons of Water per Well Volume:     0.2264    

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (°F)	DO (mg/L)	Comments
0.00	13:10	400ml/min	0					turbid
2.00	13:12	400ml/min	0.22					turbid
4.00	13:14	400ml/min	0.44					clear
6.00	13:16	400ml/min	0.66					clear
8.00	13:18	400ml/min	0.88					clear

Note 400 ml = 0.11 gallons

## GROUNDWATER PURGE / SAMPLE LOGS



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Well I.D.:     MW3    

Date: 5/14/2013

Well Depth (from TOC):     18    

Equipment: Check Valve

Static Water Level (from TOC):     10.87    

Field Personnel: Kevin Waters

Height of Water in Well:     7.13    

Gallons of Water per Well Volume:     0.2852    

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (°F)	DO (mg/L)	Comments
0.00	13:48	400ml/min	0					turbid
2.00	13:50	400ml/min	0.22					turbid
4.00	13:52	400ml/min	0.44					turbid
6.00	13:54	400ml/min	0.66					clear
8.00	13:56	400ml/min	0.88					clear

Note 400 ml = 0.11 gallons

**ATTACHMENT D**  
**SOIL GAS SAMPLING LOGS**



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Telephone: 860.645.1102 • Fax: 860.645.0823

**CHAIN OF CUSTODY RECORD**  
**AIR ANALYSES**

800-827-5426

email: [greg@phoenixlabs.com](mailto:greg@phoenixlabs.com)

P.O. #

Page 1 of 1

**Data Delivery:**

Fax #:

Email: csosika@phoenixlabs.com

Phone #:

Report to: <u>DHC</u>	Invoice to: <u>BSC</u>	Project Name: <u>82 Throop Ave Bldg NT</u>
Customer: <u>EBC</u>		Criteria Requested: Deliverable: RCP <input type="checkbox"/>
Address: <u>Ridge NT</u>		MCP <input type="checkbox"/>
	Sampled by: <u>mw</u>	State where samples collected: <u>NY</u>

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15	
<b>THIS SECTION FOR LAB USE ONLY</b>																		
79115	SG-1	834	1.4	-30	-5	2870	10	1028	1334	5/14	-30	-8						
79116	SG-2	809	↓	↓	-6	5647	↓	1125	1336	↓	-30	-8						
79117	SG-3	760	↓	↓	-3	5660	↓	115	1220	↓	-28	-7						
	1.4L 2hr																	

Relinquished by: <u>[Signature]</u>	Accepted by: <u>[Signature]</u>	Date: <u>5-15-13</u>	Time: <u>11:10</u>	Data Format: Excel <input checked="" type="checkbox"/> Equis <input type="checkbox"/> GISKey <input type="checkbox"/>
				PDF <input checked="" type="checkbox"/> Other: <input type="checkbox"/>

SPECIAL INSTRUCTIONS, OC REQUIREMENTS, REGULATORY INFORMATION: Paradise

Quote Number: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

**ATTACHMENT E**  
**LABORATORY REPORTS IN DIGITAL**  
**FORMAT**



Thursday, May 23, 2013

Attn: Mr. Charles B. Sosik, P.G  
Environmental Business Consulta  
1808 Middle Country Rd  
Ridge NY 11961-2406

Project ID: 82 THROOP AVE.  
Sample ID#s: BD78624 - BD78627

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G  
 Environmental Business Consulta  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

## Date

05/14/13  
 05/14/13

## Time

0:00  
 16:33

## Laboratory Data

SDG ID: GBD78624  
 Phoenix ID: BD78624

Project ID: 82 THROOP AVE.  
 Client ID: GW-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	05/16/13	LK	SW6010
Aluminum	2.21	0.010	mg/L	05/16/13	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	05/16/13	LK	SW6010
Barium	0.059	0.002	mg/L	05/16/13	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	05/16/13	LK	SW6010
Calcium	479	0.10	mg/L	05/16/13	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	05/16/13	LK	SW6010
Cobalt	< 0.002	0.002	mg/L	05/16/13	LK	SW6010
Chromium	0.004	0.001	mg/L	05/16/13	LK	SW6010
Copper	< 0.005	0.005	mg/L	05/16/13	LK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Aluminum (Dissolved)	0.85	0.01	mg/L	05/15/13	LK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	05/15/13	LK	SW6010
Barium (Dissolved)	0.051	0.002	mg/L	05/15/13	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Calcium (Dissolved)	524	0.11	mg/L	05/16/13	LK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Cobalt (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Copper (Dissolved)	< 0.005	0.005	mg/L	05/15/13	LK	SW6010
Iron (Dissolved)	0.535	0.011	mg/L	05/15/13	LK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	05/15/13	RS	SW7470
Potassium (Dissolved)	17.0	0.1	mg/L	05/15/13	LK	SW6010
Magnesium (Dissolved)	57.0	0.01	mg/L	05/15/13	LK	SW6010
Manganese (Dissolved)	0.184	0.001	mg/L	05/15/13	LK	SW6010
Sodium (Dissolved)	20.7	0.11	mg/L	05/15/13	LK	SW6010
Nickel (Dissolved)	0.004	0.001	mg/L	05/15/13	LK	SW6010
Lead (Dissolved)	0.003	0.002	mg/L	05/15/13	LK	SW6010

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.005	0.005	mg/L	05/15/13	LK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	05/15/13	LK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	05/16/13	RS	SW7010
Vanadium (Dissolved)	0.011	0.002	mg/L	05/15/13	LK	SW6010
Zinc (Dissolved)	0.003	0.002	mg/L	05/15/13	LK	SW6010
Iron	2.93	0.010	mg/L	05/16/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	05/15/13	RS	SW7470
Potassium	17.3	0.1	mg/L	05/16/13	LK	SW6010
Magnesium	58.5	0.01	mg/L	05/16/13	LK	SW6010
Manganese	0.124	0.001	mg/L	05/16/13	LK	SW6010
Sodium	21.9	0.1	mg/L	05/16/13	LK	SW6010
Nickel	0.005	0.001	mg/L	05/16/13	LK	SW6010
Lead	0.012	0.002	mg/L	05/16/13	LK	SW6010
Antimony	< 0.005	0.005	mg/L	05/16/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	05/16/13	LK	SW6010
Thallium	< 0.002	0.002	mg/L	05/16/13	RS	SM3113B/SW70
Vanadium	0.016	0.002	mg/L	05/16/13	LK	SW6010
Zinc	0.009	0.002	mg/L	05/16/13	LK	SW6010
Filtration	Completed			05/14/13	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			05/15/13	X/X	SW7470
Mercury Digestion	Completed			05/15/13	X/X	SW7470
PCB Extraction	Completed			05/15/13	L	SW3510C
Extraction for Pest (2 Liter)	Completed			05/15/13	L	SW3510
Semi-Volatile Extraction	Completed			05/14/13	i/K/D	SW3520
Dissolved Metals Preparation	Completed			05/14/13	AG	SW846-3005
Total Metals Digestion	Completed			05/14/13	AG	

### Polychlorinated Biphenyls

PCB-1016	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1221	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1232	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1242	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1248	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1254	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1260	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1262	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1268	ND	0.050	ug/L	05/16/13	AW	8082

### QA/QC Surrogates

% DCBP	115		%	05/16/13	AW	30 - 150 %
% TCMX	85		%	05/16/13	AW	30 - 150 %

### Pesticides

4,4' -DDD	ND*	5.0	ug/L	05/17/13	MH	SW8081
4,4' -DDE	ND*	5.0	ug/L	05/17/13	MH	SW8081
4,4' -DDT	ND*	5.0	ug/L	05/17/13	MH	SW8081
α-BHC	ND*	2.5	ug/L	05/17/13	MH	SW8081
Alachlor	ND*	7.5	ug/L	05/17/13	MH	SW8081
Aldrin	ND*	0.15	ug/L	05/17/13	MH	SW8081
β-BHC	ND*	0.50	ug/L	05/17/13	MH	SW8081
Chlordane	ND*	30	ug/L	05/17/13	MH	SW8081

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
d-BHC	ND*	2.5	ug/L	05/17/13	MH	SW8081
Dieldrin	ND*	0.15	ug/L	05/17/13	MH	SW8081
Endosulfan I	ND*	5.0	ug/L	05/17/13	MH	SW8081
Endosulfan II	ND*	5.0	ug/L	05/17/13	MH	SW8081
Endosulfan Sulfate	ND*	5.0	ug/L	05/17/13	MH	SW8081
Endrin	ND*	5.0	ug/L	05/17/13	MH	SW8081
Endrin Aldehyde	ND*	5.0	ug/L	05/17/13	MH	SW8081
Endrin ketone	ND*	5.0	ug/L	05/17/13	MH	SW8081
g-BHC (Lindane)	ND*	2.5	ug/L	05/17/13	MH	SW8081
Heptachlor	ND*	2.5	ug/L	05/17/13	MH	SW8081
Heptachlor epoxide	ND*	2.5	ug/L	05/17/13	MH	SW8081
Methoxychlor	ND*	10	ug/L	05/17/13	MH	SW8081
Toxaphene	ND*	100	ug/L	05/17/13	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
%DCBP (Surrogate Rec)	Diluted Out		%	05/17/13	MH	30 - 150 %
%TCMX (Surrogate Rec)	Diluted Out		%	05/17/13	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	05/16/13	H/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	05/16/13	H/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	05/16/13	H/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	05/16/13	H/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	05/16/13	H/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	05/16/13	H/T	SW8260
2-Hexanone	ND	5.0	ug/L	05/16/13	H/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	05/16/13	H/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	05/16/13	H/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	05/16/13	H/T	SW8260
Acetone	ND	25	ug/L	05/16/13	H/T	SW8260
Acrylonitrile	ND	5.0	ug/L	05/16/13	H/T	SW8260
Benzene	ND	0.70	ug/L	05/16/13	H/T	SW8260
Bromobenzene	ND	1.0	ug/L	05/16/13	H/T	SW8260
Bromochloromethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	05/16/13	H/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	05/16/13	H/T	SW8260
Bromomethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	05/16/13	H/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	05/16/13	H/T	SW8260
Chlorobenzene	ND	1.0	ug/L	05/16/13	H/T	SW8260
Chloroethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
Chloroform	ND	1.0	ug/L	05/16/13	H/T	SW8260
Chloromethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	05/16/13	H/T	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	05/16/13	H/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	05/16/13	H/T	SW8260
Dibromomethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
Ethylbenzene	ND	1.0	ug/L	05/16/13	H/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	05/16/13	H/T	SW8260
Isopropylbenzene	2.2	1.0	ug/L	05/16/13	H/T	SW8260
m&p-Xylene	ND	1.0	ug/L	05/16/13	H/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	05/16/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	05/16/13	H/T	SW8260
Methylene chloride	ND	1.0	ug/L	05/16/13	H/T	SW8260
Naphthalene	1.4	1.0	ug/L	05/16/13	H/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	05/16/13	H/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	05/16/13	H/T	SW8260
o-Xylene	ND	1.0	ug/L	05/16/13	H/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	05/16/13	H/T	SW8260
sec-Butylbenzene	3.4	1.0	ug/L	05/16/13	H/T	SW8260
Styrene	ND	1.0	ug/L	05/16/13	H/T	SW8260
tert-Butylbenzene	1.5	1.0	ug/L	05/16/13	H/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	05/16/13	H/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	05/16/13	H/T	SW8260
Toluene	ND	1.0	ug/L	05/16/13	H/T	SW8260
Total Xylenes	ND	1.0	ug/L	05/16/13	H/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	05/16/13	H/T	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	05/16/13	H/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	05/16/13	H/T	SW8260
Trichloroethene	ND	1.0	ug/L	05/16/13	H/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	05/16/13	H/T	SW8260
Vinyl chloride	ND	1.0	ug/L	05/16/13	H/T	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	101		%	05/16/13	H/T	70 - 130 %
% Bromofluorobenzene	99		%	05/16/13	H/T	70 - 130 %
% Dibromofluoromethane	92		%	05/16/13	H/T	70 - 130 %
% Toluene-d8	98		%	05/16/13	H/T	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4-Trichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	05/16/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	05/16/13	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	05/16/13	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	05/16/13	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	05/16/13	DD	SW8270
2-Chlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	05/16/13	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	05/16/13	DD	SW8270
2-Nitroaniline	ND	50	ug/L	05/16/13	DD	SW8270
2-Nitrophenol	ND	10	ug/L	05/16/13	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	05/16/13	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	05/16/13	DD	SW8270
3-Nitroaniline	ND	50	ug/L	05/16/13	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	05/16/13	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	05/16/13	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	05/16/13	DD	SW8270
4-Chloroaniline	ND	20	ug/L	05/16/13	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	05/16/13	DD	SW8270
4-Nitroaniline	ND	20	ug/L	05/16/13	DD	SW8270
4-Nitrophenol	ND	50	ug/L	05/16/13	DD	SW8270
Acetophenone	ND	5.0	ug/L	05/16/13	DD	SW8270
Aniline	ND	10	ug/L	05/16/13	DD	SW8270
Anthracene	ND	5.0	ug/L	05/16/13	DD	SW8270
Benzidine	ND	50	ug/L	05/16/13	DD	SW8270
Benzoic acid	ND	50	ug/L	05/16/13	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	05/16/13	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	05/16/13	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	05/16/13	DD	SW8270
Carbazole	ND	5.0	ug/L	05/16/13	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	05/16/13	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Fluoranthene	ND	5.0	ug/L	05/16/13	DD	SW8270
Fluorene	ND	5.0	ug/L	05/16/13	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	05/16/13	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	05/16/13	DD	SW8270
Isophorone	ND	5.0	ug/L	05/16/13	DD	SW8270
Naphthalene	ND	5.0	ug/L	05/16/13	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	05/16/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	05/16/13	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	05/16/13	DD	SW8270
Phenol	ND	10	ug/L	05/16/13	DD	SW8270

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Pyrene	5.6	5.0	ug/L	05/16/13	DD	SW8270
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	111		%	05/16/13	DD	15 - 130 %
% 2-Fluorobiphenyl	70		%	05/16/13	DD	30 - 130 %
% 2-Fluorophenol	75		%	05/16/13	DD	15 - 130 %
% Nitrobenzene-d5	113		%	05/16/13	DD	30 - 130 %
% Phenol-d5	87		%	05/16/13	DD	15 - 130 %
% Terphenyl-d14	67		%	05/16/13	DD	30 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	05/15/13	DD	SW8270 (SIM)
Acenaphthene	16	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Acenaphthylene	5.3	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.49	0.040	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(a)pyrene	0.26	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.35	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(k)fluoranthene	0.11	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	05/15/13	DD	SW8270 (SIM)
Chrysene	0.61	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	0.04	0.010	ug/L	05/15/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	05/15/13	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	05/15/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	0.12	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	05/15/13	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	05/15/13	DD	SW8270 (SIM)
Phenanthrene	8.7	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Pyridine	ND	0.50	ug/L	05/15/13	DD	SW8270 (SIM)
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	111		%	05/15/13	DD	15 - 130 %
% 2-Fluorobiphenyl	70		%	05/15/13	DD	30 - 130 %
% 2-Fluorophenol	75		%	05/15/13	DD	15 - 130 %
% Nitrobenzene-d5	113		%	05/15/13	DD	30 - 130 %
% Phenol-d5	87		%	05/15/13	DD	15 - 130 %
% Terphenyl-d14	67		%	05/15/13	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



**Phyllis Shiller, Laboratory Director**

**May 23, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G  
 Environmental Business Consulta  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

## Date

05/14/13  
 05/14/13

## Time

0:00  
 16:33

## Laboratory Data

SDG ID: GBD78624  
 Phoenix ID: BD78625

Project ID: 82 THROOP AVE.  
 Client ID: GW-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	05/16/13	LK	SW6010
Aluminum	14.0	0.010	mg/L	05/16/13	LK	SW6010
Arsenic	0.007	0.004	mg/L	05/16/13	LK	SW6010
Barium	0.269	0.002	mg/L	05/16/13	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	05/16/13	LK	SW6010
Calcium	242	0.10	mg/L	05/16/13	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	05/16/13	LK	SW6010
Cobalt	0.024	0.002	mg/L	05/16/13	LK	SW6010
Chromium	0.029	0.001	mg/L	05/16/13	LK	SW6010
Copper	0.044	0.005	mg/L	05/16/13	LK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Aluminum (Dissolved)	1.22	0.01	mg/L	05/15/13	LK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	05/15/13	LK	SW6010
Barium (Dissolved)	0.094	0.002	mg/L	05/15/13	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Calcium (Dissolved)	240	0.11	mg/L	05/16/13	LK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Cobalt (Dissolved)	0.014	0.001	mg/L	05/15/13	LK	SW6010
Chromium (Dissolved)	0.002	0.001	mg/L	05/15/13	LK	SW6010
Copper (Dissolved)	0.015	0.005	mg/L	05/15/13	LK	SW6010
Iron (Dissolved)	1.26	0.011	mg/L	05/15/13	LK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	05/15/13	RS	SW7470
Potassium (Dissolved)	17.1	0.1	mg/L	05/15/13	LK	SW6010
Magnesium (Dissolved)	39.3	0.01	mg/L	05/15/13	LK	SW6010
Manganese (Dissolved)	0.215	0.001	mg/L	05/15/13	LK	SW6010
Sodium (Dissolved)	41.0	0.11	mg/L	05/15/13	LK	SW6010
Nickel (Dissolved)	0.023	0.001	mg/L	05/15/13	LK	SW6010
Lead (Dissolved)	0.036	0.002	mg/L	05/15/13	LK	SW6010

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.005	0.005	mg/L	05/15/13	LK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	05/15/13	LK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	05/16/13	RS	SW7010
Vanadium (Dissolved)	0.004	0.002	mg/L	05/15/13	LK	SW6010
Zinc (Dissolved)	0.011	0.002	mg/L	05/15/13	LK	SW6010
Iron	20.6	0.010	mg/L	05/16/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	05/15/13	RS	SW7470
Potassium	20.1	0.1	mg/L	05/16/13	LK	SW6010
Magnesium	45.1	0.01	mg/L	05/16/13	LK	SW6010
Manganese	0.433	0.001	mg/L	05/16/13	LK	SW6010
Sodium	46.5	0.1	mg/L	05/16/13	LK	SW6010
Nickel	0.039	0.001	mg/L	05/16/13	LK	SW6010
Lead	0.192	0.002	mg/L	05/16/13	LK	SW6010
Antimony	< 0.005	0.005	mg/L	05/16/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	05/16/13	LK	SW6010
Thallium	< 0.002	0.002	mg/L	05/16/13	RS	SM3113B/SW70
Vanadium	0.046	0.002	mg/L	05/16/13	LK	SW6010
Zinc	0.087	0.002	mg/L	05/16/13	LK	SW6010
Filtration	Completed			05/14/13	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			05/15/13	X/X	SW7470
Mercury Digestion	Completed			05/15/13	X/X	SW7470
PCB Extraction	Completed			05/15/13	L	SW3510C
Extraction for Pest (2 Liter)	Completed			05/15/13	L	SW3510
Semi-Volatile Extraction	Completed			05/14/13	I/K/D	SW3520
Dissolved Metals Preparation	Completed			05/14/13	AG	SW846-3005
Total Metals Digestion	Completed			05/14/13	AG	

### Polychlorinated Biphenyls

PCB-1016	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1221	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1232	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1242	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1248	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1254	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1260	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1262	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1268	ND	0.050	ug/L	05/16/13	AW	8082

### QA/QC Surrogates

% DCBP	59		%	05/16/13	AW	30 - 150 %
% TCMX	72		%	05/16/13	AW	30 - 150 %

### Pesticides

4,4' -DDD	ND*	0.050	ug/L	05/17/13	MH	SW8081
4,4' -DDE	ND*	0.050	ug/L	05/17/13	MH	SW8081
4,4' -DDT	0.055	0.050	ug/L	05/17/13	MH	SW8081
α-BHC	ND*	0.12	ug/L	05/17/13	MH	SW8081
Alachlor	ND*	0.38	ug/L	05/17/13	MH	SW8081
Aldrin	ND*	0.008	ug/L	05/17/13	MH	SW8081
β-BHC	ND*	0.025	ug/L	05/17/13	MH	SW8081
Chlordane	ND*	1.5	ug/L	05/17/13	MH	SW8081

Client ID: GW-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
d-BHC	ND*	0.12	ug/L	05/17/13	MH	SW8081
Dieldrin	ND*	0.008	ug/L	05/17/13	MH	SW8081
Endosulfan I	ND*	0.25	ug/L	05/17/13	MH	SW8081
Endosulfan II	ND*	0.25	ug/L	05/17/13	MH	SW8081
Endosulfan Sulfate	ND*	0.25	ug/L	05/17/13	MH	SW8081
Endrin	ND*	0.25	ug/L	05/17/13	MH	SW8081
Endrin Aldehyde	ND*	0.25	ug/L	05/17/13	MH	SW8081
Endrin ketone	ND*	0.25	ug/L	05/17/13	MH	SW8081
g-BHC (Lindane)	ND*	0.12	ug/L	05/17/13	MH	SW8081
Heptachlor	ND*	0.12	ug/L	05/17/13	MH	SW8081
Heptachlor epoxide	ND*	0.12	ug/L	05/17/13	MH	SW8081
Methoxychlor	ND*	0.50	ug/L	05/17/13	MH	SW8081
Toxaphene	ND*	5.0	ug/L	05/17/13	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
%DCBP (Surrogate Rec)	Diluted Out		%	05/17/13	MH	30 - 150 %
%TCMX (Surrogate Rec)	Diluted Out		%	05/17/13	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	05/15/13	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	05/15/13	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	05/15/13	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	05/15/13	R/T	SW8260
Acetone	ND	25	ug/L	05/15/13	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	05/15/13	R/T	SW8260
Benzene	ND	0.70	ug/L	05/15/13	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	05/15/13	R/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	05/15/13	R/T	SW8260
Bromomethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	05/15/13	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	05/15/13	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Chloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Chloroform	ND	1.0	ug/L	05/15/13	R/T	SW8260
Chloromethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	05/15/13	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	05/15/13	R/T	SW8260 1
Dibromochloromethane	ND	0.50	ug/L	05/15/13	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	05/15/13	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	05/15/13	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	05/15/13	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	05/15/13	R/T	SW8260
Naphthalene	ND	1.0	ug/L	05/15/13	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
o-Xylene	ND	1.0	ug/L	05/15/13	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Styrene	ND	1.0	ug/L	05/15/13	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	05/15/13	R/T	SW8260 1
Toluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	05/15/13	R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	05/15/13	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	05/15/13	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	05/15/13	R/T	SW8260
Trichloroethene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	05/15/13	R/T	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	102		%	05/15/13	R/T	70 - 130 %
% Bromofluorobenzene	84		%	05/15/13	R/T	70 - 130 %
% Dibromofluoromethane	97		%	05/15/13	R/T	70 - 130 %
% Toluene-d8	87		%	05/15/13	R/T	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4-Trichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	05/16/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	05/16/13	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	05/16/13	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	05/16/13	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	05/16/13	DD	SW8270
2-Chlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	05/16/13	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	05/16/13	DD	SW8270
2-Nitroaniline	ND	50	ug/L	05/16/13	DD	SW8270
2-Nitrophenol	ND	10	ug/L	05/16/13	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	05/16/13	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	05/16/13	DD	SW8270
3-Nitroaniline	ND	50	ug/L	05/16/13	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	05/16/13	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	05/16/13	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	05/16/13	DD	SW8270
4-Chloroaniline	ND	20	ug/L	05/16/13	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	05/16/13	DD	SW8270
4-Nitroaniline	ND	20	ug/L	05/16/13	DD	SW8270
4-Nitrophenol	ND	50	ug/L	05/16/13	DD	SW8270
Acetophenone	ND	5.0	ug/L	05/16/13	DD	SW8270
Aniline	ND	10	ug/L	05/16/13	DD	SW8270
Anthracene	ND	5.0	ug/L	05/16/13	DD	SW8270
Benzidine	ND	50	ug/L	05/16/13	DD	SW8270
Benzoic acid	ND	50	ug/L	05/16/13	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	05/16/13	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	05/16/13	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	05/16/13	DD	SW8270
Carbazole	ND	5.0	ug/L	05/16/13	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	05/16/13	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Fluoranthene	ND	5.0	ug/L	05/16/13	DD	SW8270
Fluorene	ND	5.0	ug/L	05/16/13	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	05/16/13	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	05/16/13	DD	SW8270
Isophorone	ND	5.0	ug/L	05/16/13	DD	SW8270
Naphthalene	ND	5.0	ug/L	05/16/13	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	05/16/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	05/16/13	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	05/16/13	DD	SW8270
Phenol	ND	10	ug/L	05/16/13	DD	SW8270

1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Pyrene	ND	5.0	ug/L	05/16/13	DD	SW8270
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	136		%	05/16/13	DD	15 - 130 % <sup>3</sup>
% 2-Fluorobiphenyl	95		%	05/16/13	DD	30 - 130 %
% 2-Fluorophenol	80		%	05/16/13	DD	15 - 130 %
% Nitrobenzene-d5	110		%	05/16/13	DD	30 - 130 %
% Phenol-d5	87		%	05/16/13	DD	15 - 130 %
% Terphenyl-d14	55		%	05/16/13	DD	30 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	05/15/13	DD	SW8270 (SIM)
Acenaphthene	0.16	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.25	0.040	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(a)pyrene	0.22	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.29	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(k)fluoranthene	0.12	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	05/15/13	DD	SW8270 (SIM)
Chrysene	0.25	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	0.03	0.010	ug/L	05/15/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	05/15/13	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	05/15/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	0.11	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	05/15/13	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	05/15/13	DD	SW8270 (SIM)
Phenanthrene	0.36	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Pyridine	ND	0.50	ug/L	05/15/13	DD	SW8270 (SIM)
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	136		%	05/15/13	DD	15 - 130 % <sup>3</sup>
% 2-Fluorobiphenyl	95		%	05/15/13	DD	30 - 130 %
% 2-Fluorophenol	80		%	05/15/13	DD	15 - 130 %
% Nitrobenzene-d5	110		%	05/15/13	DD	30 - 130 %
% Phenol-d5	87		%	05/15/13	DD	15 - 130 %
% Terphenyl-d14	55		%	05/15/13	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
3 = This parameter exceeds laboratory specified limits.  
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

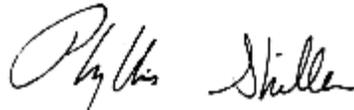
**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* One of the surrogate recoveries was above the upper range due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

\* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**May 23, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G  
 Environmental Business Consulta  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

## Date

05/14/13  
 05/14/13

## Time

0:00  
 16:33

## Laboratory Data

SDG ID: GBD78624  
 Phoenix ID: BD78626

Project ID: 82 THROOP AVE.  
 Client ID: GW-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	05/16/13	LK	SW6010
Aluminum	6.07	0.010	mg/L	05/16/13	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	05/16/13	LK	SW6010
Barium	0.133	0.002	mg/L	05/16/13	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	05/16/13	LK	SW6010
Calcium	192	0.10	mg/L	05/16/13	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	05/16/13	LK	SW6010
Cobalt	0.009	0.002	mg/L	05/16/13	LK	SW6010
Chromium	0.013	0.001	mg/L	05/16/13	LK	SW6010
Copper	0.070	0.005	mg/L	05/16/13	LK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Aluminum (Dissolved)	0.56	0.01	mg/L	05/15/13	LK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	05/15/13	LK	SW6010
Barium (Dissolved)	0.069	0.002	mg/L	05/15/13	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Calcium (Dissolved)	177	0.01	mg/L	05/15/13	LK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Cobalt (Dissolved)	0.006	0.001	mg/L	05/15/13	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Copper (Dissolved)	0.035	0.005	mg/L	05/15/13	LK	SW6010
Iron (Dissolved)	0.642	0.011	mg/L	05/15/13	LK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	05/15/13	RS	SW7470
Potassium (Dissolved)	14.3	0.1	mg/L	05/15/13	LK	SW6010
Magnesium (Dissolved)	18.6	0.01	mg/L	05/15/13	LK	SW6010
Manganese (Dissolved)	1.05	0.001	mg/L	05/15/13	LK	SW6010
Sodium (Dissolved)	35.6	0.11	mg/L	05/15/13	LK	SW6010
Nickel (Dissolved)	0.015	0.001	mg/L	05/15/13	LK	SW6010
Lead (Dissolved)	0.006	0.002	mg/L	05/15/13	LK	SW6010

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.005	0.005	mg/L	05/16/13	LK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	05/15/13	LK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	05/16/13	RS	SW7010
Vanadium (Dissolved)	0.003	0.002	mg/L	05/15/13	LK	SW6010
Zinc (Dissolved)	0.011	0.002	mg/L	05/15/13	LK	SW6010
Iron	9.02	0.010	mg/L	05/16/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	05/15/13	RS	SW7470
Potassium	15.1	0.1	mg/L	05/16/13	LK	SW6010
Magnesium	20.1	0.01	mg/L	05/16/13	LK	SW6010
Manganese	1.11	0.001	mg/L	05/16/13	LK	SW6010
Sodium	37.6	0.1	mg/L	05/16/13	LK	SW6010
Nickel	0.022	0.001	mg/L	05/16/13	LK	SW6010
Lead	0.052	0.002	mg/L	05/16/13	LK	SW6010
Antimony	< 0.005	0.005	mg/L	05/16/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	05/16/13	LK	SW6010
Thallium	< 0.002	0.002	mg/L	05/16/13	RS	SM3113B/SW70
Vanadium	0.025	0.002	mg/L	05/16/13	LK	SW6010
Zinc	0.044	0.002	mg/L	05/16/13	LK	SW6010
Filtration	Completed			05/14/13	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			05/15/13	X/X	SW7470
Mercury Digestion	Completed			05/15/13	X/X	SW7470
PCB Extraction	Completed			05/15/13	L	SW3510C
Extraction for Pest (2 Liter)	Completed			05/15/13	L	SW3510
Semi-Volatile Extraction	Completed			05/14/13	I/K/D	SW3520
Dissolved Metals Preparation	Completed			05/14/13	AG	SW846-3005
Total Metals Digestion	Completed			05/14/13	AG	

### Polychlorinated Biphenyls

PCB-1016	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1221	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1232	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1242	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1248	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1254	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1260	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1262	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1268	ND	0.050	ug/L	05/16/13	AW	8082

### QA/QC Surrogates

% DCBP	120		%	05/16/13	AW	30 - 150 %
% TCMX	94		%	05/16/13	AW	30 - 150 %

### Pesticides

4,4' -DDD	ND*	0.050	ug/L	05/17/13	MH	SW8081
4,4' -DDE	ND*	0.050	ug/L	05/17/13	MH	SW8081
4,4' -DDT	0.15	0.050	ug/L	05/17/13	MH	SW8081
α-BHC	ND*	0.12	ug/L	05/17/13	MH	SW8081
Alachlor	ND*	0.38	ug/L	05/17/13	MH	SW8081
Aldrin	ND*	0.008	ug/L	05/17/13	MH	SW8081
β-BHC	ND*	0.025	ug/L	05/17/13	MH	SW8081
Chlordane	ND*	1.5	ug/L	05/17/13	MH	SW8081

Client ID: GW-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
d-BHC	ND*	0.12	ug/L	05/17/13	MH	SW8081
Dieldrin	ND*	0.030	ug/L	05/17/13	MH	SW8081
Endosulfan I	ND*	0.25	ug/L	05/17/13	MH	SW8081
Endosulfan II	ND*	0.25	ug/L	05/17/13	MH	SW8081
Endosulfan Sulfate	ND*	0.25	ug/L	05/17/13	MH	SW8081
Endrin	ND*	0.25	ug/L	05/17/13	MH	SW8081
Endrin Aldehyde	ND*	0.25	ug/L	05/17/13	MH	SW8081
Endrin ketone	ND*	0.25	ug/L	05/17/13	MH	SW8081
g-BHC (Lindane)	ND*	0.12	ug/L	05/17/13	MH	SW8081
Heptachlor	ND*	0.12	ug/L	05/17/13	MH	SW8081
Heptachlor epoxide	ND*	0.12	ug/L	05/17/13	MH	SW8081
Methoxychlor	ND*	0.50	ug/L	05/17/13	MH	SW8081
Toxaphene	ND*	5.0	ug/L	05/17/13	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
%DCBP (Surrogate Rec)	Diluted Out		%	05/17/13	MH	30 - 150 %
%TCMX (Surrogate Rec)	Diluted Out		%	05/17/13	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	05/15/13	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	05/15/13	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	05/15/13	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	05/15/13	R/T	SW8260
Acetone	ND	25	ug/L	05/15/13	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	05/15/13	R/T	SW8260
Benzene	ND	0.70	ug/L	05/15/13	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	05/15/13	R/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	05/15/13	R/T	SW8260
Bromomethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	05/15/13	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	05/15/13	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Chloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Chloroform	ND	1.0	ug/L	05/15/13	R/T	SW8260
Chloromethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
cis-1,2-Dichloroethene	350	20.0	ug/L	05/15/13	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	05/15/13	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	05/15/13	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	05/15/13	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	05/15/13	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	05/15/13	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	05/15/13	R/T	SW8260
Naphthalene	ND	1.0	ug/L	05/15/13	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
o-Xylene	ND	1.0	ug/L	05/15/13	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Styrene	ND	1.0	ug/L	05/15/13	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Tetrachloroethene	21	1.0	ug/L	05/15/13	R/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	05/15/13	R/T	SW8260
Toluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	05/15/13	R/T	SW8260
trans-1,2-Dichloroethene	1.6	1.0	ug/L	05/15/13	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	05/15/13	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	05/15/13	R/T	SW8260
Trichloroethene	23	1.0	ug/L	05/15/13	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	05/15/13	R/T	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	102		%	05/15/13	R/T	70 - 130 %
% Bromofluorobenzene	84		%	05/15/13	R/T	70 - 130 %
% Dibromofluoromethane	100		%	05/15/13	R/T	70 - 130 %
% Toluene-d8	87		%	05/15/13	R/T	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4-Trichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	05/16/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270

Client ID: GW-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	05/16/13	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	05/16/13	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	05/16/13	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	05/16/13	DD	SW8270
2-Chlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	05/16/13	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	05/16/13	DD	SW8270
2-Nitroaniline	ND	50	ug/L	05/16/13	DD	SW8270
2-Nitrophenol	ND	10	ug/L	05/16/13	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	05/16/13	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	05/16/13	DD	SW8270
3-Nitroaniline	ND	50	ug/L	05/16/13	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	05/16/13	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	05/16/13	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	05/16/13	DD	SW8270
4-Chloroaniline	ND	20	ug/L	05/16/13	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	05/16/13	DD	SW8270
4-Nitroaniline	ND	20	ug/L	05/16/13	DD	SW8270
4-Nitrophenol	ND	50	ug/L	05/16/13	DD	SW8270
Acetophenone	ND	5.0	ug/L	05/16/13	DD	SW8270
Aniline	ND	10	ug/L	05/16/13	DD	SW8270
Anthracene	ND	5.0	ug/L	05/16/13	DD	SW8270
Benzidine	ND	50	ug/L	05/16/13	DD	SW8270
Benzoic acid	ND	50	ug/L	05/16/13	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	05/16/13	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	05/16/13	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	05/16/13	DD	SW8270
Carbazole	ND	5.0	ug/L	05/16/13	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	05/16/13	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Fluoranthene	ND	5.0	ug/L	05/16/13	DD	SW8270
Fluorene	ND	5.0	ug/L	05/16/13	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	05/16/13	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	05/16/13	DD	SW8270
Isophorone	ND	5.0	ug/L	05/16/13	DD	SW8270
Naphthalene	ND	5.0	ug/L	05/16/13	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	05/16/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	05/16/13	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	05/16/13	DD	SW8270
Phenol	ND	10	ug/L	05/16/13	DD	SW8270

1

Client ID: GW-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Pyrene	ND	5.0	ug/L	05/16/13	DD	SW8270
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	130		%	05/16/13	DD	15 - 130 %
% 2-Fluorobiphenyl	97		%	05/16/13	DD	30 - 130 %
% 2-Fluorophenol	84		%	05/16/13	DD	15 - 130 %
% Nitrobenzene-d5	111		%	05/16/13	DD	30 - 130 %
% Phenol-d5	90		%	05/16/13	DD	15 - 130 %
% Terphenyl-d14	76		%	05/16/13	DD	30 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	05/15/13	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Acenaphthylene	0.06	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.7	0.040	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(a)pyrene	0.61	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.91	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(k)fluoranthene	0.3	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	05/15/13	DD	SW8270 (SIM)
Chrysene	0.74	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	0.1	0.010	ug/L	05/15/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	05/15/13	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	05/15/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	0.34	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	05/15/13	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	05/15/13	DD	SW8270 (SIM)
Phenanthrene	0.81	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Pyridine	ND	0.50	ug/L	05/15/13	DD	SW8270 (SIM)
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	130		%	05/15/13	DD	15 - 130 %
% 2-Fluorobiphenyl	97		%	05/15/13	DD	30 - 130 %
% 2-Fluorophenol	84		%	05/15/13	DD	15 - 130 %
% Nitrobenzene-d5	111		%	05/15/13	DD	30 - 130 %
% Phenol-d5	90		%	05/15/13	DD	15 - 130 %
% Terphenyl-d14	76		%	05/15/13	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

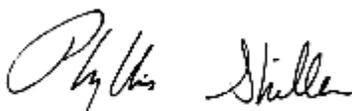
**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**May 23, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G  
 Environmental Business Consulta  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

## Date

05/14/13  
 05/14/13

## Time

0:00  
 16:33

## Laboratory Data

SDG ID: GBD78624  
 Phoenix ID: BD78627

Project ID: 82 THROOP AVE.  
 Client ID: DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	05/16/13	LK	SW6010
Aluminum	2.35	0.010	mg/L	05/16/13	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	05/16/13	LK	SW6010
Barium	0.100	0.002	mg/L	05/16/13	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	05/16/13	LK	SW6010
Calcium	184	0.10	mg/L	05/16/13	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	05/16/13	LK	SW6010
Cobalt	0.007	0.002	mg/L	05/16/13	LK	SW6010
Chromium	0.006	0.001	mg/L	05/16/13	LK	SW6010
Copper	0.047	0.005	mg/L	05/16/13	LK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Aluminum (Dissolved)	0.42	0.01	mg/L	05/15/13	LK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	05/15/13	LK	SW6010
Barium (Dissolved)	0.067	0.002	mg/L	05/15/13	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Calcium (Dissolved)	174	0.01	mg/L	05/15/13	LK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Cobalt (Dissolved)	0.006	0.001	mg/L	05/15/13	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	05/15/13	LK	SW6010
Copper (Dissolved)	0.035	0.005	mg/L	05/15/13	LK	SW6010
Iron (Dissolved)	0.512	0.011	mg/L	05/15/13	LK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	05/15/13	RS	SW7470
Potassium (Dissolved)	13.9	0.1	mg/L	05/15/13	LK	SW6010
Magnesium (Dissolved)	18.6	0.01	mg/L	05/15/13	LK	SW6010
Manganese (Dissolved)	1.02	0.001	mg/L	05/15/13	LK	SW6010
Sodium (Dissolved)	35.2	0.11	mg/L	05/15/13	LK	SW6010
Nickel (Dissolved)	0.015	0.001	mg/L	05/15/13	LK	SW6010
Lead (Dissolved)	0.005	0.002	mg/L	05/15/13	LK	SW6010

Client ID: DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.003	0.003	mg/L	05/15/13	LK	SW6010
Selenium (Dissolved)	< 0.01	0.01	mg/L	05/15/13	LK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	05/16/13	RS	SW7010
Vanadium (Dissolved)	< 0.002	0.002	mg/L	05/15/13	LK	SW6010
Zinc (Dissolved)	0.008	0.002	mg/L	05/15/13	LK	SW6010
Iron	3.29	0.010	mg/L	05/16/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	05/15/13	RS	SW7470
Potassium	15.0	0.1	mg/L	05/16/13	LK	SW6010
Magnesium	19.8	0.01	mg/L	05/16/13	LK	SW6010
Manganese	1.00	0.001	mg/L	05/16/13	LK	SW6010
Sodium	37.8	0.1	mg/L	05/16/13	LK	SW6010
Nickel	0.017	0.001	mg/L	05/16/13	LK	SW6010
Lead	0.027	0.002	mg/L	05/16/13	LK	SW6010
Antimony	< 0.003	0.003	mg/L	05/16/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	05/16/13	LK	SW6010
Thallium	< 0.002	0.002	mg/L	05/16/13	RS	SM3113B/SW70
Vanadium	0.010	0.002	mg/L	05/16/13	LK	SW6010
Zinc	0.021	0.002	mg/L	05/16/13	LK	SW6010
Filtration	Completed			05/14/13	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			05/15/13	X/X	SW7470
Mercury Digestion	Completed			05/15/13	X/X	SW7470
PCB Extraction	Completed			05/15/13	L	SW3510C
Extraction for Pest (2 Liter)	Completed			05/15/13	L	SW3510
Semi-Volatile Extraction	Completed			05/14/13	I/K/D	SW3520
Dissolved Metals Preparation	Completed			05/14/13	AG	SW846-3005
Total Metals Digestion	Completed			05/14/13	AG	

**Polychlorinated Biphenyls**

PCB-1016	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1221	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1232	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1242	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1248	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1254	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1260	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1262	ND	0.050	ug/L	05/16/13	AW	8082
PCB-1268	ND	0.050	ug/L	05/16/13	AW	8082

**QA/QC Surrogates**

% DCBP	74		%	05/16/13	AW	30 - 150 %
% TCMX	85		%	05/16/13	AW	30 - 150 %

**Pesticides**

4,4' -DDD	ND	0.050	ug/L	05/17/13	MH	SW8081
4,4' -DDE	ND	0.050	ug/L	05/17/13	MH	SW8081
4,4' -DDT	0.043	0.025	ug/L	05/17/13	MH	SW8081
α-BHC	ND	0.12	ug/L	05/17/13	MH	SW8081
Alachlor	ND	0.38	ug/L	05/17/13	MH	SW8081
Aldrin	ND	0.008	ug/L	05/17/13	MH	SW8081
β-BHC	ND	0.025	ug/L	05/17/13	MH	SW8081
Chlordane	ND	1.5	ug/L	05/17/13	MH	SW8081

Client ID: DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
d-BHC	ND	0.12	ug/L	05/17/13	MH	SW8081
Dieldrin	ND	0.008	ug/L	05/17/13	MH	SW8081
Endosulfan I	ND	0.25	ug/L	05/17/13	MH	SW8081
Endosulfan II	ND	0.25	ug/L	05/17/13	MH	SW8081
Endosulfan Sulfate	ND	0.25	ug/L	05/17/13	MH	SW8081
Endrin	ND	0.25	ug/L	05/17/13	MH	SW8081
Endrin Aldehyde	ND	0.25	ug/L	05/17/13	MH	SW8081
Endrin ketone	ND	0.25	ug/L	05/17/13	MH	SW8081
g-BHC (Lindane)	ND	0.12	ug/L	05/17/13	MH	SW8081
Heptachlor	ND	0.12	ug/L	05/17/13	MH	SW8081
Heptachlor epoxide	ND	0.12	ug/L	05/17/13	MH	SW8081
Methoxychlor	ND	0.50	ug/L	05/17/13	MH	SW8081
Toxaphene	ND	5.0	ug/L	05/17/13	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
%DCBP (Surrogate Rec)	Diluted Out		%	05/17/13	MH	30 - 150 %
%TCMX (Surrogate Rec)	Diluted Out		%	05/17/13	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	05/15/13	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	05/15/13	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	05/15/13	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	05/15/13	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	05/15/13	R/T	SW8260
Acetone	ND	25	ug/L	05/15/13	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	05/15/13	R/T	SW8260
Benzene	ND	0.70	ug/L	05/15/13	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	05/15/13	R/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	05/15/13	R/T	SW8260
Bromomethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	05/15/13	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	05/15/13	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Chloroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Chloroform	ND	1.0	ug/L	05/15/13	R/T	SW8260
Chloromethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
cis-1,2-Dichloroethene	290	20	ug/L	05/15/13	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	05/15/13	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	05/15/13	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	05/15/13	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	05/15/13	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	05/15/13	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	05/15/13	R/T	SW8260
Naphthalene	ND	1.0	ug/L	05/15/13	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
o-Xylene	ND	1.0	ug/L	05/15/13	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Styrene	ND	1.0	ug/L	05/15/13	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Tetrachloroethene	20	1.0	ug/L	05/15/13	R/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	05/15/13	R/T	SW8260
Toluene	ND	1.0	ug/L	05/15/13	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	05/15/13	R/T	SW8260
trans-1,2-Dichloroethene	1.6	1.0	ug/L	05/15/13	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	05/15/13	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	05/15/13	R/T	SW8260
Trichloroethene	23	1.0	ug/L	05/15/13	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	05/15/13	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	05/15/13	R/T	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	102		%	05/15/13	R/T	70 - 130 %
% Bromofluorobenzene	83		%	05/15/13	R/T	70 - 130 %
% Dibromofluoromethane	97		%	05/15/13	R/T	70 - 130 %
% Toluene-d8	91		%	05/15/13	R/T	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4-Trichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	05/16/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270

Client ID: DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	05/16/13	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	05/16/13	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	05/16/13	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	05/16/13	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	05/16/13	DD	SW8270
2-Chlorophenol	ND	10	ug/L	05/16/13	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	05/16/13	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	05/16/13	DD	SW8270
2-Nitroaniline	ND	50	ug/L	05/16/13	DD	SW8270
2-Nitrophenol	ND	10	ug/L	05/16/13	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	05/16/13	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	05/16/13	DD	SW8270
3-Nitroaniline	ND	50	ug/L	05/16/13	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	05/16/13	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	05/16/13	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	05/16/13	DD	SW8270
4-Chloroaniline	ND	20	ug/L	05/16/13	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	05/16/13	DD	SW8270
4-Nitroaniline	ND	20	ug/L	05/16/13	DD	SW8270
4-Nitrophenol	ND	50	ug/L	05/16/13	DD	SW8270
Acetophenone	ND	5.0	ug/L	05/16/13	DD	SW8270
Aniline	ND	10	ug/L	05/16/13	DD	SW8270
Anthracene	ND	5.0	ug/L	05/16/13	DD	SW8270
Benzidine	ND	50	ug/L	05/16/13	DD	SW8270
Benzoic acid	ND	50	ug/L	05/16/13	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	05/16/13	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	05/16/13	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	05/16/13	DD	SW8270
Carbazole	ND	5.0	ug/L	05/16/13	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	05/16/13	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	05/16/13	DD	SW8270
Fluoranthene	ND	5.0	ug/L	05/16/13	DD	SW8270
Fluorene	ND	5.0	ug/L	05/16/13	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	05/16/13	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	05/16/13	DD	SW8270
Isophorone	ND	5.0	ug/L	05/16/13	DD	SW8270
Naphthalene	ND	5.0	ug/L	05/16/13	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	05/16/13	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	05/16/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	05/16/13	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	05/16/13	DD	SW8270
Phenol	ND	10	ug/L	05/16/13	DD	SW8270

1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Pyrene	ND	5.0	ug/L	05/16/13	DD	SW8270
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	139		%	05/16/13	DD	15 - 130 % <sup>3</sup>
% 2-Fluorobiphenyl	98		%	05/16/13	DD	30 - 130 %
% 2-Fluorophenol	84		%	05/16/13	DD	15 - 130 %
% Nitrobenzene-d5	110		%	05/16/13	DD	30 - 130 %
% Phenol-d5	95		%	05/16/13	DD	15 - 130 %
% Terphenyl-d14	115		%	05/16/13	DD	30 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	05/15/13	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.11	0.040	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(a)pyrene	0.09	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.14	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	05/15/13	DD	SW8270 (SIM)
Benzo(k)fluoranthene	0.05	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	05/15/13	DD	SW8270 (SIM)
Chrysene	0.1	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	05/15/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	05/15/13	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	05/15/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	05/15/13	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	05/15/13	DD	SW8270 (SIM)
Phenanthrene	0.14	0.050	ug/L	05/15/13	DD	SW8270 (SIM)
Pyridine	ND	0.50	ug/L	05/15/13	DD	SW8270 (SIM)
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	139		%	05/15/13	DD	15 - 130 % <sup>3</sup>
% 2-Fluorobiphenyl	98		%	05/15/13	DD	30 - 130 %
% 2-Fluorophenol	84		%	05/15/13	DD	15 - 130 %
% Nitrobenzene-d5	110		%	05/15/13	DD	30 - 130 %
% Phenol-d5	95		%	05/15/13	DD	15 - 130 %
% Terphenyl-d14	115		%	05/15/13	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
3 = This parameter exceeds laboratory specified limits.  
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

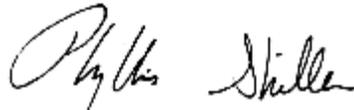
**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* One of the surrogate recoveries was above the upper range due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

\* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**May 23, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



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# QA/QC Report

May 23, 2013

## QA/QC Data

SDG I.D.: GBD78624

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 230261, QC Sample No: BD71178 (BD78624, BD78625, BD78626, BD78627)												
<u>ICP Metals - Dissolved</u>												
Aluminum	BRL	0.10	0.09	10.5	87.1	86.1	1.2	87.1	90.5	3.8	75 - 125	20
Antimony	BRL	<0.005	<0.005	NC	95.5	93.5	2.1	97.4	97.8	0.4	75 - 125	20
Arsenic	BRL	<0.004	<0.004	NC	87.4	86.5	1.0	90.8	90.7	0.1	75 - 125	20
Barium	BRL	0.007	0.007	NC	96.9	96.0	0.9	101	100	1.0	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	90.1	88.5	1.8	93.7	93.5	0.2	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	92.3	91.4	1.0	95.1	94.4	0.7	75 - 125	20
Calcium	BRL	6.06	5.91	2.50	91.0	91.1	0.1	NC	NC	NC	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	91.4	89.9	1.7	94.2	94.1	0.1	75 - 125	20
Cobalt	BRL	<0.001	<0.001	NC	95.1	93.7	1.5	97.9	97.7	0.2	75 - 125	20
Copper	BRL	0.005	<0.005	NC	91.4	90.4	1.1	95.5	95.8	0.3	75 - 125	20
Iron	BRL	0.202	0.195	3.50	94.3	92.6	1.8	95.5	95.7	0.2	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	90.4	88.8	1.8	92.8	92.5	0.3	75 - 125	20
Magnesium	BRL	1.40	1.38	1.40	93.4	91.9	1.6	86.1	85.4	0.8	75 - 125	20
Manganese	BRL	0.032	0.031	3.20	94.0	92.7	1.4	97.0	96.3	0.7	75 - 125	20
Nickel	BRL	0.001	0.001	NC	93.5	91.9	1.7	96.0	95.6	0.4	75 - 125	20
Potassium	BRL	1.9	1.8	5.40	91.1	88.5	2.9	96.8	96.0	0.8	75 - 125	20
Selenium	BRL	<0.011	<0.011	NC	83.4	83.1	0.4	87.3	87.2	0.1	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	90.4	90.4	0.0	95.3	95.5	0.2	75 - 125	20
Sodium	BRL	7.37	7.25	1.60	102	96.7	5.3	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	90.6	90.3	0.3	94.2	94.8	0.6	75 - 125	20
Zinc	BRL	0.002	0.003	NC	92.1	90.8	1.4	95.2	94.7	0.5	75 - 125	20
QA/QC Batch 230260, QC Sample No: BD71178 (BD78624, BD78625, BD78626, BD78627)												
Thallium (Dissolved)		<0.001	<0.005	NC	87.4	90.0	2.9	88.7	90.8	2.3	75 - 125	20
QA/QC Batch 230259, QC Sample No: BD71178 (BD78624, BD78625, BD78626, BD78627)												
Thallium - Water	BRL	<0.002	<0.002	NC	87.2	85.7	1.7	91.1	89.5	1.8	75 - 125	20
QA/QC Batch 230491, QC Sample No: BD78176 (BD78624, BD78625, BD78626, BD78627)												
Mercury - Water	BRL	0.0006	0.0006	NC	101	97.0	4.0	>130	72.0	NC	70 - 130	20 m
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												
QA/QC Batch 230442, QC Sample No: BD78186 (BD78624, BD78625, BD78626, BD78627)												
<u>ICP Metals - Aqueous</u>												
Aluminum	BRL	0.244	0.293	18.2	100	97.9	2.1	102	106	3.8	75 - 125	20
Antimony	BRL	0.013	0.012	NC	82.8	83.5	0.8	83.3	73.2	12.9	75 - 125	20 m
Arsenic	BRL	0.005	0.005	NC	77.8	78.7	1.2	80.8	71.8	11.8	75 - 125	20 m
Barium	BRL	0.266	0.290	8.60	77.6	76.6	1.3	77.8	66.9	15.1	75 - 125	20 m
Beryllium	BRL	<0.001	<0.001	NC	75.0	75.8	1.1	76.7	69.9	9.3	75 - 125	20 m
Cadmium	BRL	<0.001	<0.001	NC	78.3	81.4	3.9	79.1	70.5	11.5	75 - 125	20 m
Calcium	BRL	264	232	12.9	102	97.5	4.5	NC	NC	NC	75 - 125	20
Chromium	BRL	<0.001	0.001	NC	75.0	76.4	1.8	75.4	66.2	13.0	75 - 125	20 m
Cobalt	BRL	<0.002	<0.002	NC	79.0	80.9	2.4	79.3	69.7	12.9	75 - 125	20 m

QA/QC Data

SDG I.D.: GBD78624

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Copper	BRL	<0.005	<0.005	NC	75.5	102	29.9	108	106	1.9	75 - 125	20	r
Iron	BRL	69.0	76.1	9.80	77.2	78.8	2.1	NC	NC	NC	75 - 125	20	
Lead	BRL	<0.002	<0.002	NC	77.2	79.0	2.3	77.8	69.3	11.6	75 - 125	20	m
Magnesium	BRL	20.3	22.4	9.80	77.8	79.2	1.8	NC	NC	NC	75 - 125	20	
Manganese	BRL	0.954	1.05	9.60	76.9	78.2	1.7	76.3	66.1	14.3	75 - 125	20	m
Nickel	BRL	0.002	0.002	NC	79.4	81.5	2.6	79.5	70.1	12.6	75 - 125	20	m
Potassium	BRL	27.3	28.1	2.90	76.1	68.8	10.1	NC	NC	NC	75 - 125	20	l
Selenium	BRL	<0.010	<0.010	NC	75.4	76.4	1.3	76.4	68.0	11.6	75 - 125	20	m
Silver	BRL	<0.001	<0.001	NC	76.8	77.0	0.3	78.0	70.0	10.8	75 - 125	20	m
Sodium	0.1	185	194	4.70	88.4	78.1	12.4	NC	NC	NC	75 - 125	20	
Vanadium	BRL	<0.002	<0.002	NC	103	98.9	4.1	105	102	2.9	75 - 125	20	
Zinc	BRL	0.002	0.003	NC	77.1	78.7	2.1	77.8	68.6	12.6	75 - 125	20	m

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.  
m = This parameter is outside laboratory ms/msd specified recovery limits.  
r = This parameter is outside laboratory rpd specified recovery limits.



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# QA/QC Report

May 23, 2013

## QA/QC Data

SDG I.D.: GBD78624

Parameter	Blank	LCS %	LCS D %	LCS RPD	MS %	MS D %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 230757, QC Sample No: BD71493 (BD78626 (20X) )

### Volatiles - Ground Water

cis-1,2-Dichloroethene	ND	121	122	0.8	130	110	16.7	70 - 130	30
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Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 230651, QC Sample No: BD78176 (BD78624, BD78625, BD78626, BD78627)

### Pesticides - Ground Water

4,4' -DDD	ND	109	109	0.0				40 - 140	20
4,4' -DDE	ND	104	107	2.8				40 - 140	20
4,4' -DDT	ND	107	110	2.8				40 - 140	20
a-BHC	ND	95	98	3.1				40 - 140	20
a-Chlordane	ND	99	100	1.0				40 - 140	20
Alachlor	ND	N/A	N/A	NC				40 - 140	20
Aldrin	ND	74	75	1.3				40 - 140	20
b-BHC	ND	94	97	3.1				40 - 140	20
Chlordane	ND	N/A	N/A	NC				40 - 140	20
d-BHC	ND	94	96	2.1				40 - 140	20
Dieldrin	ND	102	106	3.8				40 - 140	20
Endosulfan I	ND	89	93	4.4				40 - 140	20
Endosulfan II	ND	98	103	5.0				40 - 140	20
Endosulfan sulfate	ND	102	105	2.9				40 - 140	20
Endrin	ND	100	101	1.0				40 - 140	20
Endrin aldehyde	ND	107	110	2.8				40 - 140	20
Endrin ketone	ND	108	115	6.3				40 - 140	20
g-BHC	ND	95	98	3.1				40 - 140	20
g-Chlordane	ND	97	99	2.0				40 - 140	20
Heptachlor	ND	93	96	3.2				40 - 140	20
Heptachlor epoxide	ND	96	99	3.1				40 - 140	20
Methoxychlor	ND	115	118	2.6				40 - 140	20
Toxaphene	ND	N/A	N/A	NC				40 - 140	20
% DCBP	88	85	88	3.5				30 - 150	20
% TCMX	88	78	80	2.5				30 - 150	20

Comment:

A LCS and LCS duplicate were performed instead of a matrix spike and matrix spike duplicate, unless otherwise noted. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane.

QA/QC Batch 230652, QC Sample No: BD78176 (BD78624, BD78625, BD78626, BD78627)

### Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	89	91	2.2				40 - 140	20
PCB-1221	ND							40 - 140	20
PCB-1232	ND							40 - 140	20
PCB-1242	ND							40 - 140	20
PCB-1248	ND							40 - 140	20

## QA/QC Data

SDG I.D.: GBD78624

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
PCB-1254	ND							40 - 140	20
PCB-1260	ND	96	98	2.1				40 - 140	20
PCB-1262	ND							40 - 140	20
PCB-1268	ND							40 - 140	20
% DCBP (Surrogate Rec)	84	93	100	7.3				30 - 150	20
% TCMX (Surrogate Rec)	77	81	81	0.0				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 230961, QC Sample No: BD78624 (BD78624)

### Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	99	104	4.9	110	103	6.6	70 - 130	30	
1,1,1-Trichloroethane	ND	87	92	5.6	100	88	12.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	95	100	5.1	115	99	15.0	70 - 130	30	
1,1,2-Trichloroethane	ND	86	94	8.9	104	92	12.2	70 - 130	30	
1,1-Dichloroethane	ND	90	96	6.5	104	90	14.4	70 - 130	30	
1,1-Dichloroethene	ND	85	90	5.7	96	89	7.6	70 - 130	30	
1,1-Dichloropropene	ND	100	102	2.0	92	78	16.5	70 - 130	30	
1,2,3-Trichlorobenzene	ND	98	106	7.8	110	99	10.5	70 - 130	30	
1,2,3-Trichloropropane	ND	98	104	5.9	112	98	13.3	70 - 130	30	
1,2,4-Trichlorobenzene	ND	98	105	6.9	109	99	9.6	70 - 130	30	
1,2,4-Trimethylbenzene	ND	103	107	3.8	112	100	11.3	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	95	112	16.4	116	101	13.8	70 - 130	30	
1,2-Dibromoethane	ND	86	94	8.9	103	91	12.4	70 - 130	30	
1,2-Dichlorobenzene	ND	101	105	3.9	110	102	7.5	70 - 130	30	
1,2-Dichloroethane	ND	83	91	9.2	100	88	12.8	70 - 130	30	
1,2-Dichloropropane	ND	84	91	8.0	99	88	11.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	101	104	2.9	113	100	12.2	70 - 130	30	
1,3-Dichlorobenzene	ND	102	105	2.9	111	101	9.4	70 - 130	30	
1,3-Dichloropropane	ND	92	101	9.3	110	99	10.5	70 - 130	30	
1,4-Dichlorobenzene	ND	101	105	3.9	110	99	10.5	70 - 130	30	
2,2-Dichloropropane	ND	83	87	4.7	66	64	3.1	70 - 130	30	m
2-Chlorotoluene	ND	103	103	0.0	110	101	8.5	70 - 130	30	
2-Hexanone	ND	88	105	17.6	107	93	14.0	70 - 130	30	
2-Isopropyltoluene	ND	100	102	2.0	111	100	10.4	70 - 130	30	
4-Chlorotoluene	ND	101	103	2.0	111	101	9.4	70 - 130	30	
4-Methyl-2-pentanone	ND	82	95	14.7	101	87	14.9	70 - 130	30	
Acetone	ND	69	77	11.0	108	83	26.2	70 - 130	30	l
Acrylonitrile	ND	84	97	14.4	108	87	21.5	70 - 130	30	
Benzene	ND	90	93	3.3	98	90	8.5	70 - 130	30	
Bromobenzene	ND	101	103	2.0	112	103	8.4	70 - 130	30	
Bromochloromethane	ND	86	94	8.9	104	90	14.4	70 - 130	30	
Bromodichloromethane	ND	86	93	7.8	100	90	10.5	70 - 130	30	
Bromoform	ND	94	104	10.1	106	96	9.9	70 - 130	30	
Bromomethane	ND	75	81	7.7	<40	<40	NC	70 - 130	30	m
Carbon Disulfide	ND	73	76	4.0	95	86	9.9	70 - 130	30	
Carbon tetrachloride	ND	91	96	5.3	99	95	4.1	70 - 130	30	
Chlorobenzene	ND	96	99	3.1	107	98	8.8	70 - 130	30	
Chloroethane	ND	85	89	4.6	101	89	12.6	70 - 130	30	
Chloroform	ND	89	94	5.5	104	92	12.2	70 - 130	30	
Chloromethane	ND	72	79	9.3	80	75	6.5	70 - 130	30	
cis-1,2-Dichloroethene	ND	91	95	4.3	101	90	11.5	70 - 130	30	
cis-1,3-Dichloropropene	ND	81	90	10.5	93	84	10.2	70 - 130	30	

## QA/QC Data

SDG I.D.: GBD78624

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dibromochloromethane	ND	99	109	9.6	110	103	6.6	70 - 130	30
Dibromomethane	ND	86	95	9.9	99	87	12.9	70 - 130	30
Dichlorodifluoromethane	ND	66	72	8.7	77	74	4.0	70 - 130	30
Ethylbenzene	ND	93	96	3.2	107	98	8.8	70 - 130	30
Hexachlorobutadiene	ND	94	98	4.2	97	91	6.4	70 - 130	30
Isopropylbenzene	ND	103	105	1.9	110	101	8.5	70 - 130	30
m&p-Xylene	ND	94	97	3.1	106	96	9.9	70 - 130	30
Methyl ethyl ketone	ND	97	103	6.0	102	73	33.1	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	80	90	11.8	101	91	10.4	70 - 130	30
Methylene chloride	ND	77	84	8.7	94	81	14.9	70 - 130	30
Naphthalene	ND	102	109	6.6	116	105	10.0	70 - 130	30
n-Butylbenzene	ND	102	105	2.9	107	93	14.0	70 - 130	30
n-Propylbenzene	ND	103	104	1.0	109	99	9.6	70 - 130	30
o-Xylene	ND	91	94	3.2	107	98	8.8	70 - 130	30
p-Isopropyltoluene	ND	101	103	2.0	110	98	11.5	70 - 130	30
sec-Butylbenzene	ND	98	100	2.0	109	97	11.7	70 - 130	30
Styrene	ND	89	93	4.4	107	98	8.8	70 - 130	30
tert-Butylbenzene	ND	103	104	1.0	110	100	9.5	70 - 130	30
Tetrachloroethene	ND	95	97	2.1	103	96	7.0	70 - 130	30
Tetrahydrofuran (THF)	ND	82	96	15.7	109	89	20.2	70 - 130	30
Toluene	ND	85	88	3.5	98	91	7.4	70 - 130	30
trans-1,2-Dichloroethene	ND	89	93	4.4	100	90	10.5	70 - 130	30
trans-1,3-Dichloropropene	ND	81	90	10.5	94	85	10.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	95	102	7.1	114	99	14.1	70 - 130	30
Trichloroethene	ND	89	93	4.4	99	92	7.3	70 - 130	30
Trichlorofluoromethane	ND	81	86	6.0	92	87	5.6	70 - 130	30
Trichlorotrifluoroethane	ND	76	81	6.4	87	83	4.7	70 - 130	30
Vinyl chloride	ND	75	85	12.5	80	75	6.5	70 - 130	30
% 1,2-dichlorobenzene-d4	99	99	100	1.0	98	101	3.0	70 - 130	30
% Bromofluorobenzene	93	95	97	2.1	97	97	0.0	70 - 130	30
% Dibromofluoromethane	95	94	100	6.2	98	96	2.1	70 - 130	30
% Toluene-d8	98	96	97	1.0	98	98	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 231740, QC Sample No: BD78627 (BD78627 (20X) )

### Volatiles - Ground Water

cis-1,2-Dichloroethene	ND	113	103	9.3	103	97	6.0	70 - 130	30
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Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 230444, QC Sample No: BD78631 (BD78624, BD78625, BD78626, BD78627)

### Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	86	96	11.0				30 - 130	20
1,2,4-Trichlorobenzene	ND	83	91	9.2				30 - 130	20
1,2-Dichlorobenzene	ND	78	85	8.6				30 - 130	20
1,2-Diphenylhydrazine	ND	78	89	13.2				30 - 130	20
1,3-Dichlorobenzene	ND	79	85	7.3				30 - 130	20
1,4-Dichlorobenzene	ND	77	85	9.9				30 - 130	20
2,4,5-Trichlorophenol	ND	95	105	10.0				30 - 130	20
2,4,6-Trichlorophenol	ND	87	97	10.9				30 - 130	20
2,4-Dichlorophenol	ND	86	94	8.9				30 - 130	20
2,4-Dimethylphenol	ND	44	48	8.7				30 - 130	20

QA/QC Data

SDG I.D.: GBD78624

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
2,4-Dinitrophenol	ND	90	111	20.9				30 - 130	20
2,4-Dinitrotoluene	ND	86	98	13.0				30 - 130	20
2,6-Dinitrotoluene	ND	91	101	10.4				30 - 130	20
2-Chloronaphthalene	ND	86	98	13.0				30 - 130	20
2-Chlorophenol	ND	73	80	9.2				30 - 130	20
2-Methylnaphthalene	ND	85	94	10.1				30 - 130	20
2-Methylphenol (o-cresol)	ND	67	73	8.6				30 - 130	20
2-Nitroaniline	ND	>150	>150	NC				30 - 130	20
2-Nitrophenol	ND	79	86	8.5				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	71	77	8.1				30 - 130	20
3,3'-Dichlorobenzidine	ND	99	109	9.6				30 - 130	20
3-Nitroaniline	ND	90	101	11.5				30 - 130	20
4,6-Dinitro-2-methylphenol	ND	96	114	17.1				30 - 130	20
4-Bromophenyl phenyl ether	ND	103	109	5.7				30 - 130	20
4-Chloro-3-methylphenol	ND	82	91	10.4				30 - 130	20
4-Chloroaniline	ND	65	73	11.6				30 - 130	20
4-Chlorophenyl phenyl ether	ND	90	101	11.5				30 - 130	20
4-Nitroaniline	ND	85	97	13.2				30 - 130	20
4-Nitrophenol	ND	73	86	16.4				30 - 130	20
Acenaphthene	ND	90	99	9.5				30 - 130	20
Acenaphthylene	ND	86	95	9.9				30 - 130	20
Acetophenone	ND	80	89	10.7				30 - 130	20
Aniline	ND	74	81	9.0				30 - 130	20
Anthracene	ND	93	101	8.2				30 - 130	20
Benz(a)anthracene	ND	89	95	6.5				30 - 130	20
Benzidine	ND	40	35	13.3				10 - 130	20
Benzo(a)pyrene	ND	87	97	10.9				30 - 130	20
Benzo(b)fluoranthene	ND	102	110	7.5				30 - 130	20
Benzo(ghi)perylene	ND	76	84	10.0				30 - 130	20
Benzo(k)fluoranthene	ND	107	113	5.5				30 - 130	20
Benzoic acid	ND	N/A	N/A	NC				30 - 130	20
Benzyl butyl phthalate	ND	85	87	2.3				30 - 130	20
Bis(2-chloroethoxy)methane	ND	81	89	9.4				30 - 130	20
Bis(2-chloroethyl)ether	ND	71	80	11.9				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	71	79	10.7				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	86	91	5.6				30 - 130	20
Carbazole	ND	126	136	7.6				30 - 130	20
Chrysene	ND	92	100	8.3				30 - 130	20
Dibenz(a,h)anthracene	ND	78	88	12.0				30 - 130	20
Dibenzofuran	ND	88	98	10.8				30 - 130	20
Diethyl phthalate	ND	88	99	11.8				30 - 130	20
Dimethylphthalate	ND	90	101	11.5				30 - 130	20
Di-n-butylphthalate	ND	95	101	6.1				30 - 130	20
Di-n-octylphthalate	ND	86	97	12.0				30 - 130	20
Fluoranthene	ND	105	105	0.0				30 - 130	20
Fluorene	ND	88	99	11.8				30 - 130	20
Hexachlorobenzene	ND	94	101	7.2				30 - 130	20
Hexachlorobutadiene	ND	86	93	7.8				30 - 130	20
Hexachlorocyclopentadiene	ND	78	87	10.9				30 - 130	20
Hexachloroethane	ND	76	84	10.0				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	79	87	9.6				30 - 130	20
Isophorone	ND	85	93	9.0				30 - 130	20
Naphthalene	ND	83	89	7.0				30 - 130	20

## QA/QC Data

SDG I.D.: GBD78624

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Nitrobenzene	ND	78	85	8.6				30 - 130	20
N-Nitrosodimethylamine	ND	65	74	12.9				30 - 130	20
N-Nitrosodi-n-propylamine	ND	77	84	8.7				30 - 130	20
N-Nitrosodiphenylamine	ND	94	106	12.0				30 - 130	20
Pentachloronitrobenzene	ND	97	103	6.0				30 - 130	20
Pentachlorophenol	ND	105	117	10.8				30 - 130	20
Phenanthrene	ND	95	104	9.0				30 - 130	20
Phenol	ND	59	65	9.7				30 - 130	20
Pyrene	ND	110	106	3.7				30 - 130	20
Pyridine	ND	41	44	7.1				30 - 130	20
% 2,4,6-Tribromophenol	126	88	95	7.7				15 - 130	20
% 2-Fluorobiphenyl	99	88	95	7.7				30 - 130	20
% 2-Fluorophenol	86	57	62	8.4				15 - 130	20
% Nitrobenzene-d5	110	75	82	8.9				30 - 130	20
% Phenol-d5	95	56	62	10.2				15 - 130	20
% Terphenyl-d14	97	122	112	8.5				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 230579, QC Sample No: BD78745 (BD78625, BD78626, BD78627)

### Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	96	95	1.0	103			70 - 130	30	
1,1,1-Trichloroethane	ND	92	85	7.9	103			70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	105	105	0.0	116			70 - 130	30	
1,1,2-Trichloroethane	ND	97	93	4.2	102			70 - 130	30	
1,1-Dichloroethane	ND	101	95	6.1	135			70 - 130	30	m
1,1-Dichloroethene	ND	110	99	10.5	127			70 - 130	30	
1,1-Dichloropropene	ND	93	84	10.2	131			70 - 130	30	m
1,2,3-Trichlorobenzene	ND	108	105	2.8	105			70 - 130	30	
1,2,3-Trichloropropane	ND	99	96	3.1	110			70 - 130	30	
1,2,4-Trichlorobenzene	ND	105	104	1.0	108			70 - 130	30	
1,2,4-Trimethylbenzene	ND	110	106	3.7	118			70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	103	102	1.0	116			70 - 130	30	
1,2-Dibromoethane	ND	91	90	1.1	99			70 - 130	30	
1,2-Dichlorobenzene	ND	102	100	2.0	109			70 - 130	30	
1,2-Dichloroethane	ND	76	72	5.4	98			70 - 130	30	
1,2-Dichloropropane	ND	98	93	5.2	111			70 - 130	30	
1,3,5-Trimethylbenzene	ND	108	103	4.7	117			70 - 130	30	
1,3-Dichlorobenzene	ND	107	103	3.8	112			70 - 130	30	
1,3-Dichloropropane	ND	107	106	0.9	119			70 - 130	30	
1,4-Dichlorobenzene	ND	106	102	3.8	110			70 - 130	30	
2,2-Dichloropropane	ND	>150	135	NC	138			70 - 130	30	l,m
2-Chlorotoluene	ND	113	108	4.5	119			70 - 130	30	
2-Hexanone	ND	100	103	3.0	109			70 - 130	30	
2-Isopropyltoluene	ND	108	102	5.7	120			70 - 130	30	
4-Chlorotoluene	ND	109	105	3.7	120			70 - 130	30	
4-Methyl-2-pentanone	ND	97	93	4.2	110			70 - 130	30	
Acetone	ND	84	83	1.2	104			70 - 130	30	
Acrylonitrile	ND	113	116	2.6	147			70 - 130	30	m
Benzene	ND	98	90	8.5	149			70 - 130	30	m
Bromobenzene	ND	107	105	1.9	114			70 - 130	30	
Bromochloromethane	ND	107	103	3.8	124			70 - 130	30	

QA/QC Data

SDG I.D.: GBD78624

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromodichloromethane	ND	88	83	5.8	95			70 - 130	30
Bromoform	ND	100	99	1.0	109			70 - 130	30
Bromomethane	ND	101	98	3.0	96			70 - 130	30
Carbon Disulfide	ND	104	97	7.0	147			70 - 130	30 m
Carbon tetrachloride	ND	78	73	6.6	95			70 - 130	30
Chlorobenzene	ND	105	101	3.9	115			70 - 130	30
Chloroethane	ND	102	98	4.0	144			70 - 130	30 m
Chloroform	ND	97	91	6.4	111			70 - 130	30
Chloromethane	ND	98	92	6.3	123			70 - 130	30
cis-1,2-Dichloroethene	ND	112	107	4.6	139			70 - 130	30 m
cis-1,3-Dichloropropene	ND	110	103	6.6	115			70 - 130	30
Dibromochloromethane	ND	99	99	0.0	104			70 - 130	30
Dibromomethane	ND	93	89	4.4	99			70 - 130	30
Dichlorodifluoromethane	ND	99	91	8.4	99			70 - 130	30
Ethylbenzene	ND	105	100	4.9	118			70 - 130	30
Hexachlorobutadiene	ND	97	95	2.1	104			70 - 130	30
Isopropylbenzene	ND	119	113	5.2	124			70 - 130	30
m&p-Xylene	ND	106	103	2.9	120			70 - 130	30
Methyl ethyl ketone	ND	88	86	2.3	125			70 - 130	30
Methyl t-butyl ether (MTBE)	ND	93	87	6.7	122			70 - 130	30
Methylene chloride	ND	90	87	3.4	115			70 - 130	30
Naphthalene	ND	115	113	1.8	111			70 - 130	30
n-Butylbenzene	ND	112	106	5.5	119			70 - 130	30
n-Propylbenzene	ND	119	113	5.2	120			70 - 130	30
o-Xylene	ND	111	107	3.7	122			70 - 130	30
p-Isopropyltoluene	ND	111	105	5.6	118			70 - 130	30
sec-Butylbenzene	ND	107	102	4.8	119			70 - 130	30
Styrene	ND	107	105	1.9	122			70 - 130	30
tert-Butylbenzene	ND	109	104	4.7	120			70 - 130	30
Tetrachloroethene	ND	106	100	5.8	111			70 - 130	30
Tetrahydrofuran (THF)	ND	105	97	7.9	132			70 - 130	30 m
Toluene	ND	99	93	6.3	110			70 - 130	30
trans-1,2-Dichloroethene	ND	109	102	6.6	131			70 - 130	30 m
trans-1,3-Dichloropropene	ND	104	98	5.9	109			70 - 130	30
trans-1,4-dichloro-2-butene	ND	136	137	0.7	141			70 - 130	30 l,m
Trichloroethene	ND	108	102	5.7	121			70 - 130	30
Trichlorofluoromethane	ND	89	81	9.4	94			70 - 130	30
Trichlorotrifluoroethane	ND	103	94	9.1	106			70 - 130	30
Vinyl chloride	ND	107	100	6.8	135			70 - 130	30 m
% 1,2-dichlorobenzene-d4	100	99	99	0.0	100			70 - 130	30
% Bromofluorobenzene	84	90	91	1.1	97			70 - 130	30
% Dibromofluoromethane	95	99	100	1.0	99			70 - 130	30
% Toluene-d8	93	92	91	1.1	90			70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.  
m = This parameter is outside laboratory ms/msd specified recovery limits.  
r = This parameter is outside laboratory rpd specified recovery limits.

QA/QC Data

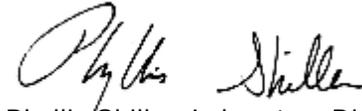
SDG I.D.: GBD78624

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference



Phyllis Shiller, Laboratory Director  
May 23, 2013

# Sample Criteria Exceedences Report

Requested Criteria: GW

**GBD78624 - EBC**

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD78624	\$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BD78624	\$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BD78624	\$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BD78624	\$8270-SIMFSR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BD78624	\$8270-SIMFSR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78624	\$8270-SIMFSR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BD78624	\$8270-SIMFSR	Aniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BD78624	\$8270-SIMFSR	Aniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BD78624	\$8270-SIMFSR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78624	\$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BD78624	\$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78624	\$8270-SIMFSR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BD78624	\$8270-SIMFSR	2-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BD78624	\$8270-SIMFSR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78624	\$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BD78624	\$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78624	\$8270-SIMFSR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BD78624	\$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78624	\$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BD78624	\$8270-SIMFSR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	20	5	5	ug/L
BD78624	\$8270-SIMFSR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BD78624	\$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	20	5	5	ug/L
BD78624	\$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	20	1	1	ug/L
BD78624	\$8270-SIMFSR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78624	\$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BD78624	\$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78624	\$8270-SIMFSR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BD78624	\$8270-SIMFSR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78624	\$8270-SIMFSR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78624	\$8270-SIMFSR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78624	\$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78624	\$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BD78624	\$8270-SIMFSR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78624	\$8270-SIMFSR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BD78624	\$8270-SIMFSR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78624	\$8270-SIMFSR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78624	\$8270-SIMFSR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BD78624	\$8270-SIMFSR	Benzidine	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78624	\$8270-SIMFSR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78624	\$8270-SIMR	Hexachlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	0.060	0.04	0.04	ug/L
BD78624	\$8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.49	0.040	0.002	0.002	ug/L
BD78624	\$8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.49	0.040	0.002	0.002	ug/L

# Sample Criteria Exceedences Report

Requested Criteria: GW

GBD78624 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD78624	\$8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.61	0.050	0.002	0.002	ug/L
BD78624	\$8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.61	0.050	0.002	0.002	ug/L
BD78624	\$8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.35	0.050	0.002	0.002	ug/L
BD78624	\$8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.35	0.050	0.002	0.002	ug/L
BD78624	\$8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.11	0.050	0.002	0.002	ug/L
BD78624	\$8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.11	0.050	0.002	0.002	ug/L
BD78624	\$8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.26	0.050	0.002	0.002	ug/L
BD78624	\$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.12	0.050	0.002	0.002	ug/L
BD78624	\$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.12	0.050	0.002	0.002	ug/L
BD78624	\$PEST_GAWR	Aldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.15	0.01	0.01	ug/L
BD78624	\$PEST_GAWR	a-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	2.5	0.05	0.05	ug/L
BD78624	\$PEST_GAWR	a-BHC	NY / TOGS - Water Quality / GA Criteria	ND*	2.5	0.01	0.01	ug/L
BD78624	\$PEST_GAWR	b-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.50	0.05	0.05	ug/L
BD78624	\$PEST_GAWR	b-BHC	NY / TOGS - Water Quality / GA Criteria	ND*	0.50	0.04	0.04	ug/L
BD78624	\$PEST_GAWR	d-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	2.5	0.05	0.05	ug/L
BD78624	\$PEST_GAWR	d-BHC	NY / TOGS - Water Quality / GA Criteria	ND*	2.5	0.04	0.04	ug/L
BD78624	\$PEST_GAWR	g-BHC (Lindane)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	2.5	0.05	0.05	ug/L
BD78624	\$PEST_GAWR	g-BHC (Lindane)	NY / TOGS - Water Quality / GA Criteria	ND*	2.5	0.05	0.05	ug/L
BD78624	\$PEST_GAWR	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	30	0.1	0.1	ug/L
BD78624	\$PEST_GAWR	Chlordane	NY / TOGS - Water Quality / GA Criteria	ND*	30	0.05	0.05	ug/L
BD78624	\$PEST_GAWR	4,4' -DDD	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	5.0	0.01	0.01	ug/L
BD78624	\$PEST_GAWR	4,4' -DDD	NY / TOGS - Water Quality / GA Criteria	ND*	5.0	0.3	0.3	ug/L
BD78624	\$PEST_GAWR	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	5.0	0.01	0.01	ug/L
BD78624	\$PEST_GAWR	4,4' -DDE	NY / TOGS - Water Quality / GA Criteria	ND*	5.0	0.2	0.2	ug/L
BD78624	\$PEST_GAWR	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	5.0	0.01	0.01	ug/L
BD78624	\$PEST_GAWR	4,4' -DDT	NY / TOGS - Water Quality / GA Criteria	ND*	5.0	0.2	0.2	ug/L
BD78624	\$PEST_GAWR	Dieldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.15	0.01	0.01	ug/L
BD78624	\$PEST_GAWR	Dieldrin	NY / TOGS - Water Quality / GA Criteria	ND*	0.15	0.004	0.004	ug/L
BD78624	\$PEST_GAWR	Endosulfan I	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	5.0	0.1	0.1	ug/L
BD78624	\$PEST_GAWR	Endosulfan II	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	5.0	0.1	0.1	ug/L
BD78624	\$PEST_GAWR	Endosulfan Sulfate	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	5.0	0.1	0.1	ug/L
BD78624	\$PEST_GAWR	Endrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	5.0	0.01	0.01	ug/L
BD78624	\$PEST_GAWR	Heptachlor	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	2.5	0.01	0.01	ug/L
BD78624	\$PEST_GAWR	Heptachlor	NY / TOGS - Water Quality / GA Criteria	ND*	2.5	0.04	0.04	ug/L
BD78624	\$PEST_GAWR	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	2.5	0.01	0.01	ug/L
BD78624	\$PEST_GAWR	Heptachlor epoxide	NY / TOGS - Water Quality / GA Criteria	ND*	2.5	0.03	0.03	ug/L
BD78624	\$PEST_GAWR	Alachlor	NY / TOGS - Water Quality / GA Criteria	ND*	7.5	0.5	0.5	ug/L
BD78624	\$PEST_GAWR	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND*	100	0.06	0.06	ug/L
BD78624	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	2.21	0.010	0.1	0.1	mg/L
BD78624	D-AL	Aluminum (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.85	0.01	0.1	0.1	mg/L
BD78624	D-FE	Iron (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.535	0.011	0.3	0.3	mg/L
BD78624	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	57.0	0.01	35	35	mg/L

# Sample Criteria Exceedences Report

Requested Criteria: GW

**GBD78624 - EBC**

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD78624	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	20.7	0.11	20	20	mg/L
BD78624	D-SB	Antimony (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BD78624	D-SE	Selenium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.011	0.01	0.01	mg/L
BD78624	D-TL	Thallium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BD78624	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	2.93	0.010	0.3	0.3	mg/L
BD78624	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	58.5	0.01	35	35	mg/L
BD78624	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	21.9	0.1	20	20	mg/L
BD78624	SB-WM	Antimony	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BD78624	TL-WM	Thallium	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BD78625	\$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BD78625	\$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BD78625	\$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BD78625	\$8270-SIMFSR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BD78625	\$8270-SIMFSR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78625	\$8270-SIMFSR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BD78625	\$8270-SIMFSR	Aniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BD78625	\$8270-SIMFSR	Aniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BD78625	\$8270-SIMFSR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78625	\$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BD78625	\$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78625	\$8270-SIMFSR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BD78625	\$8270-SIMFSR	2-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BD78625	\$8270-SIMFSR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78625	\$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78625	\$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BD78625	\$8270-SIMFSR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BD78625	\$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BD78625	\$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78625	\$8270-SIMFSR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	20	5	5	ug/L
BD78625	\$8270-SIMFSR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BD78625	\$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	20	5	5	ug/L
BD78625	\$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	20	1	1	ug/L
BD78625	\$8270-SIMFSR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78625	\$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BD78625	\$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78625	\$8270-SIMFSR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BD78625	\$8270-SIMFSR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78625	\$8270-SIMFSR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78625	\$8270-SIMFSR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78625	\$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78625	\$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L

# Sample Criteria Exceedences Report

Requested Criteria: GW

GBD78624 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD78625	\$8270-SIMFSR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78625	\$8270-SIMFSR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BD78625	\$8270-SIMFSR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78625	\$8270-SIMFSR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78625	\$8270-SIMFSR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BD78625	\$8270-SIMFSR	Benzidine	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78625	\$8270-SIMFSR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78625	\$8270-SIMR	Hexachlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	0.060	0.04	0.04	ug/L
BD78625	\$8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.25	0.040	0.002	0.002	ug/L
BD78625	\$8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.25	0.040	0.002	0.002	ug/L
BD78625	\$8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.25	0.050	0.002	0.002	ug/L
BD78625	\$8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.25	0.050	0.002	0.002	ug/L
BD78625	\$8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.29	0.050	0.002	0.002	ug/L
BD78625	\$8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.29	0.050	0.002	0.002	ug/L
BD78625	\$8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.12	0.050	0.002	0.002	ug/L
BD78625	\$8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.12	0.050	0.002	0.002	ug/L
BD78625	\$8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.22	0.050	0.002	0.002	ug/L
BD78625	\$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.11	0.050	0.002	0.002	ug/L
BD78625	\$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.11	0.050	0.002	0.002	ug/L
BD78625	\$PEST_GAWR	a-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.12	0.05	0.05	ug/L
BD78625	\$PEST_GAWR	a-BHC	NY / TOGS - Water Quality / GA Criteria	ND*	0.12	0.01	0.01	ug/L
BD78625	\$PEST_GAWR	d-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.12	0.05	0.05	ug/L
BD78625	\$PEST_GAWR	d-BHC	NY / TOGS - Water Quality / GA Criteria	ND*	0.12	0.04	0.04	ug/L
BD78625	\$PEST_GAWR	g-BHC (Lindane)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.12	0.05	0.05	ug/L
BD78625	\$PEST_GAWR	g-BHC (Lindane)	NY / TOGS - Water Quality / GA Criteria	ND*	0.12	0.05	0.05	ug/L
BD78625	\$PEST_GAWR	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	1.5	0.1	0.1	ug/L
BD78625	\$PEST_GAWR	Chlordane	NY / TOGS - Water Quality / GA Criteria	ND*	1.5	0.05	0.05	ug/L
BD78625	\$PEST_GAWR	4,4' -DDD	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.050	0.01	0.01	ug/L
BD78625	\$PEST_GAWR	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.050	0.01	0.01	ug/L
BD78625	\$PEST_GAWR	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.055	0.050	0.01	0.01	ug/L
BD78625	\$PEST_GAWR	Dieldrin	NY / TOGS - Water Quality / GA Criteria	ND*	0.008	0.004	0.004	ug/L
BD78625	\$PEST_GAWR	Endosulfan I	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.1	0.1	ug/L
BD78625	\$PEST_GAWR	Endosulfan II	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.1	0.1	ug/L
BD78625	\$PEST_GAWR	Endosulfan Sulfate	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.1	0.1	ug/L
BD78625	\$PEST_GAWR	Endrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.01	0.01	ug/L
BD78625	\$PEST_GAWR	Heptachlor	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.12	0.01	0.01	ug/L
BD78625	\$PEST_GAWR	Heptachlor	NY / TOGS - Water Quality / GA Criteria	ND*	0.12	0.04	0.04	ug/L
BD78625	\$PEST_GAWR	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.12	0.01	0.01	ug/L
BD78625	\$PEST_GAWR	Heptachlor epoxide	NY / TOGS - Water Quality / GA Criteria	ND*	0.12	0.03	0.03	ug/L
BD78625	\$PEST_GAWR	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND*	5.0	0.06	0.06	ug/L
BD78625	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	14.0	0.010	0.1	0.1	mg/L
BD78625	D-AL	Aluminum (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.22	0.01	0.1	0.1	mg/L

# Sample Criteria Exceedences Report

Requested Criteria: GW

GBD78624 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD78625	D-FE	Iron (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.26	0.011	0.3	0.3	mg/L
BD78625	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	39.3	0.01	35	35	mg/L
BD78625	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	41.0	0.11	20	20	mg/L
BD78625	D-PB	Lead (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.036	0.002	0.025	0.025	mg/L
BD78625	D-SB	Antimony (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BD78625	D-SE	Selenium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.011	0.01	0.01	mg/L
BD78625	D-TL	Thallium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BD78625	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	20.6	0.010	0.3	0.3	mg/L
BD78625	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	45.1	0.01	35	35	mg/L
BD78625	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	0.433	0.001	0.3	0.3	mg/L
BD78625	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	46.5	0.1	20	20	mg/L
BD78625	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.192	0.002	0.025	0.025	mg/L
BD78625	SB-WM	Antimony	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BD78625	TL-WM	Thallium	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BD78626	\$8260GWR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	350	20.0	5	5	ug/L
BD78626	\$8260GWR	Trichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	23	1.0	5	5	ug/L
BD78626	\$8260GWR	Trichloroethene	NY / TOGS - Water Quality / GA Criteria	23	1.0	5	5	ug/L
BD78626	\$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BD78626	\$8260GWR	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	21	1.0	5	5	ug/L
BD78626	\$8260GWR	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	21	1.0	5	5	ug/L
BD78626	\$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BD78626	\$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BD78626	\$8270-SIMFSR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BD78626	\$8270-SIMFSR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78626	\$8270-SIMFSR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BD78626	\$8270-SIMFSR	Aniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BD78626	\$8270-SIMFSR	Aniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BD78626	\$8270-SIMFSR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78626	\$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BD78626	\$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78626	\$8270-SIMFSR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BD78626	\$8270-SIMFSR	2-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BD78626	\$8270-SIMFSR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78626	\$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BD78626	\$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78626	\$8270-SIMFSR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BD78626	\$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78626	\$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BD78626	\$8270-SIMFSR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	20	5	5	ug/L
BD78626	\$8270-SIMFSR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BD78626	\$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	20	5	5	ug/L

# Sample Criteria Exceedences Report

Requested Criteria: GW

GBD78624 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD78626	\$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	20	1	1	ug/L
BD78626	\$8270-SIMFSR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78626	\$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BD78626	\$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78626	\$8270-SIMFSR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BD78626	\$8270-SIMFSR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78626	\$8270-SIMFSR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78626	\$8270-SIMFSR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78626	\$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78626	\$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BD78626	\$8270-SIMFSR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78626	\$8270-SIMFSR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BD78626	\$8270-SIMFSR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78626	\$8270-SIMFSR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78626	\$8270-SIMFSR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BD78626	\$8270-SIMFSR	Benzidine	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78626	\$8270-SIMFSR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78626	\$8270-SIMR	Hexachlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	0.060	0.04	0.04	ug/L
BD78626	\$8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.7	0.040	0.002	0.002	ug/L
BD78626	\$8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.7	0.040	0.002	0.002	ug/L
BD78626	\$8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.74	0.050	0.002	0.002	ug/L
BD78626	\$8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.74	0.050	0.002	0.002	ug/L
BD78626	\$8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.91	0.050	0.002	0.002	ug/L
BD78626	\$8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.91	0.050	0.002	0.002	ug/L
BD78626	\$8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.3	0.050	0.002	0.002	ug/L
BD78626	\$8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.3	0.050	0.002	0.002	ug/L
BD78626	\$8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.61	0.050	0.002	0.002	ug/L
BD78626	\$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.34	0.050	0.002	0.002	ug/L
BD78626	\$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.34	0.050	0.002	0.002	ug/L
BD78626	\$PEST_GAWR	a-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.12	0.05	0.05	ug/L
BD78626	\$PEST_GAWR	a-BHC	NY / TOGS - Water Quality / GA Criteria	ND*	0.12	0.01	0.01	ug/L
BD78626	\$PEST_GAWR	d-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.12	0.05	0.05	ug/L
BD78626	\$PEST_GAWR	d-BHC	NY / TOGS - Water Quality / GA Criteria	ND*	0.12	0.04	0.04	ug/L
BD78626	\$PEST_GAWR	g-BHC (Lindane)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.12	0.05	0.05	ug/L
BD78626	\$PEST_GAWR	g-BHC (Lindane)	NY / TOGS - Water Quality / GA Criteria	ND*	0.12	0.05	0.05	ug/L
BD78626	\$PEST_GAWR	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	1.5	0.1	0.1	ug/L
BD78626	\$PEST_GAWR	Chlordane	NY / TOGS - Water Quality / GA Criteria	ND*	1.5	0.05	0.05	ug/L
BD78626	\$PEST_GAWR	4,4' -DDD	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.050	0.01	0.01	ug/L
BD78626	\$PEST_GAWR	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.050	0.01	0.01	ug/L
BD78626	\$PEST_GAWR	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.15	0.050	0.01	0.01	ug/L
BD78626	\$PEST_GAWR	Dieldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.030	0.01	0.01	ug/L
BD78626	\$PEST_GAWR	Dieldrin	NY / TOGS - Water Quality / GA Criteria	ND*	0.030	0.004	0.004	ug/L

# Sample Criteria Exceedences Report

Requested Criteria: GW

GBD78624 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD78626	\$PEST_GAWR	Endosulfan I	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.1	0.1	ug/L
BD78626	\$PEST_GAWR	Endosulfan II	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.1	0.1	ug/L
BD78626	\$PEST_GAWR	Endosulfan Sulfate	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.1	0.1	ug/L
BD78626	\$PEST_GAWR	Endrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.01	0.01	ug/L
BD78626	\$PEST_GAWR	Heptachlor	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.12	0.01	0.01	ug/L
BD78626	\$PEST_GAWR	Heptachlor	NY / TOGS - Water Quality / GA Criteria	ND*	0.12	0.04	0.04	ug/L
BD78626	\$PEST_GAWR	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.12	0.01	0.01	ug/L
BD78626	\$PEST_GAWR	Heptachlor epoxide	NY / TOGS - Water Quality / GA Criteria	ND*	0.12	0.03	0.03	ug/L
BD78626	\$PEST_GAWR	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND*	5.0	0.06	0.06	ug/L
BD78626	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	6.07	0.010	0.1	0.1	mg/L
BD78626	D-AL	Aluminum (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.56	0.01	0.1	0.1	mg/L
BD78626	D-FE	Iron (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.642	0.011	0.3	0.3	mg/L
BD78626	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.05	0.001	0.3	0.3	mg/L
BD78626	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	35.6	0.11	20	20	mg/L
BD78626	D-SB	Antimony (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BD78626	D-SE	Selenium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.011	0.01	0.01	mg/L
BD78626	D-TL	Thallium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BD78626	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	9.02	0.010	0.3	0.3	mg/L
BD78626	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	1.11	0.001	0.3	0.3	mg/L
BD78626	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	37.6	0.1	20	20	mg/L
BD78626	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.052	0.002	0.025	0.025	mg/L
BD78626	SB-WM	Antimony	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BD78626	TL-WM	Thallium	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BD78627	\$8260GWR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	290	20	5	5	ug/L
BD78627	\$8260GWR	Trichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	23	1.0	5	5	ug/L
BD78627	\$8260GWR	Trichloroethene	NY / TOGS - Water Quality / GA Criteria	23	1.0	5	5	ug/L
BD78627	\$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BD78627	\$8260GWR	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	20	1.0	5	5	ug/L
BD78627	\$8260GWR	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	20	1.0	5	5	ug/L
BD78627	\$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BD78627	\$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BD78627	\$8270-SIMFSR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BD78627	\$8270-SIMFSR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78627	\$8270-SIMFSR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BD78627	\$8270-SIMFSR	Aniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BD78627	\$8270-SIMFSR	Aniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BD78627	\$8270-SIMFSR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78627	\$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BD78627	\$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78627	\$8270-SIMFSR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BD78627	\$8270-SIMFSR	2-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L

# Sample Criteria Exceedences Report

Requested Criteria: GW

GBD78624 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD78627	\$8270-SIMFSR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78627	\$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78627	\$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BD78627	\$8270-SIMFSR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BD78627	\$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BD78627	\$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78627	\$8270-SIMFSR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	20	5	5	ug/L
BD78627	\$8270-SIMFSR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BD78627	\$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	20	5	5	ug/L
BD78627	\$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	20	1	1	ug/L
BD78627	\$8270-SIMFSR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78627	\$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BD78627	\$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BD78627	\$8270-SIMFSR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BD78627	\$8270-SIMFSR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78627	\$8270-SIMFSR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78627	\$8270-SIMFSR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78627	\$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BD78627	\$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78627	\$8270-SIMFSR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78627	\$8270-SIMFSR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BD78627	\$8270-SIMFSR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BD78627	\$8270-SIMFSR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78627	\$8270-SIMFSR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BD78627	\$8270-SIMFSR	Benzidine	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78627	\$8270-SIMFSR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BD78627	\$8270-SIMR	Hexachlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	0.060	0.04	0.04	ug/L
BD78627	\$8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.11	0.040	0.002	0.002	ug/L
BD78627	\$8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.11	0.040	0.002	0.002	ug/L
BD78627	\$8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.1	0.050	0.002	0.002	ug/L
BD78627	\$8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.1	0.050	0.002	0.002	ug/L
BD78627	\$8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.14	0.050	0.002	0.002	ug/L
BD78627	\$8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.14	0.050	0.002	0.002	ug/L
BD78627	\$8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.05	0.050	0.002	0.002	ug/L
BD78627	\$8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.05	0.050	0.002	0.002	ug/L
BD78627	\$8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.09	0.050	0.002	0.002	ug/L
BD78627	\$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.050	0.002	0.002	ug/L
BD78627	\$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.050	0.002	0.002	ug/L
BD78627	\$PEST_GAWR	a-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.12	0.05	0.05	ug/L
BD78627	\$PEST_GAWR	a-BHC	NY / TOGS - Water Quality / GA Criteria	ND	0.12	0.01	0.01	ug/L
BD78627	\$PEST_GAWR	d-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.12	0.05	0.05	ug/L
BD78627	\$PEST_GAWR	d-BHC	NY / TOGS - Water Quality / GA Criteria	ND	0.12	0.04	0.04	ug/L

# Sample Criteria Exceedences Report

Requested Criteria: GW

GBD78624 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD78627	\$PEST_GAWR	g-BHC (Lindane)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.12	0.05	0.05	ug/L
BD78627	\$PEST_GAWR	g-BHC (Lindane)	NY / TOGS - Water Quality / GA Criteria	ND	0.12	0.05	0.05	ug/L
BD78627	\$PEST_GAWR	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	1.5	0.1	0.1	ug/L
BD78627	\$PEST_GAWR	Chlordane	NY / TOGS - Water Quality / GA Criteria	ND	1.5	0.05	0.05	ug/L
BD78627	\$PEST_GAWR	4,4' -DDD	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.050	0.01	0.01	ug/L
BD78627	\$PEST_GAWR	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.050	0.01	0.01	ug/L
BD78627	\$PEST_GAWR	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.043	0.025	0.01	0.01	ug/L
BD78627	\$PEST_GAWR	Dieldrin	NY / TOGS - Water Quality / GA Criteria	ND	0.008	0.004	0.004	ug/L
BD78627	\$PEST_GAWR	Endosulfan I	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.1	0.1	ug/L
BD78627	\$PEST_GAWR	Endosulfan II	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.1	0.1	ug/L
BD78627	\$PEST_GAWR	Endosulfan Sulfate	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.1	0.1	ug/L
BD78627	\$PEST_GAWR	Endrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.25	0.01	0.01	ug/L
BD78627	\$PEST_GAWR	Heptachlor	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.12	0.01	0.01	ug/L
BD78627	\$PEST_GAWR	Heptachlor	NY / TOGS - Water Quality / GA Criteria	ND	0.12	0.04	0.04	ug/L
BD78627	\$PEST_GAWR	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.12	0.01	0.01	ug/L
BD78627	\$PEST_GAWR	Heptachlor epoxide	NY / TOGS - Water Quality / GA Criteria	ND	0.12	0.03	0.03	ug/L
BD78627	\$PEST_GAWR	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.06	0.06	ug/L
BD78627	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	2.35	0.010	0.1	0.1	mg/L
BD78627	D-AL	Aluminum (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.42	0.01	0.1	0.1	mg/L
BD78627	D-FE	Iron (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.512	0.011	0.3	0.3	mg/L
BD78627	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.02	0.001	0.3	0.3	mg/L
BD78627	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	35.2	0.11	20	20	mg/L
BD78627	D-TL	Thallium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BD78627	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	3.29	0.010	0.3	0.3	mg/L
BD78627	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	1.00	0.001	0.3	0.3	mg/L
BD78627	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	37.8	0.1	20	20	mg/L
BD78627	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.027	0.002	0.025	0.025	mg/L
BD78627	TL-WM	Thallium	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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# NY Temperature Narration

May 23, 2013

SDG I.D.: GBD78624

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The samples in this delivery group were received at 4°C.  
(Note acceptance criteria is above freezing up to 6°C)





Tuesday, May 21, 2013

Attn: Mr. Charles B. Sosik, P.G.  
Environmental Business Consultants  
1808 Middle Country Rd  
Ridge NY 11961-2406

Project ID: 82 THROOP AVE., BROOKLYN  
Sample ID#s: BD78164 - BD78170, BD78200 - BD78201

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

May 21, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

## Date

05/13/13  
 05/14/13

## Time

8:00  
 14:38

## Laboratory Data

SDG ID: GBD78164  
 Phoenix ID: BD78164

Project ID: 82 THROOP AVE., BROOKLYN  
 Client ID: SB1 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	05/15/13	LK	SW6010
Aluminum	8180	51	mg/Kg	05/15/13	LK	SW6010
Arsenic	7.4	0.7	mg/Kg	05/15/13	LK	SW6010
Barium	398	0.34	mg/Kg	05/15/13	LK	SW6010
Beryllium	0.49	0.27	mg/Kg	05/15/13	LK	SW6010
Calcium	22600	51	mg/Kg	05/15/13	LK	SW6010
Cadmium	1.42	0.34	mg/Kg	05/15/13	LK	SW6010
Cobalt	5.91	0.34	mg/Kg	05/15/13	LK	SW6010
Chromium	46.4	0.34	mg/Kg	05/15/13	LK	SW6010
Copper	97.7	0.34	mg/kg	05/15/13	LK	SW6010
Iron	32600	51	mg/Kg	05/15/13	LK	SW6010
Mercury	1.15	0.07	mg/Kg	05/15/13	RS	SW-7471
Potassium	1050	5.1	mg/Kg	05/15/13	LK	SW6010
Magnesium	3170	5.1	mg/Kg	05/15/13	LK	SW6010
Manganese	325	3.4	mg/Kg	05/15/13	LK	SW6010
Sodium	355	5.1	mg/Kg	05/15/13	LK	SW6010
Nickel	25.4	0.34	mg/Kg	05/15/13	LK	SW6010
Lead	451	3.4	mg/Kg	05/15/13	LK	SW6010
Antimony	< 3.4	3.4	mg/Kg	05/15/13	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	05/15/13	LK	SW6010
Thallium	< 0.5	0.5	mg/Kg	05/15/13	LK	SW6010
Vanadium	31.7	0.34	mg/Kg	05/15/13	LK	SW6010
Zinc	378	3.4	mg/Kg	05/15/13	LK	SW6010
Percent Solid	87		%	05/15/13	JL	E160.3
Soil Extraction for PCB	Completed			05/14/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed			05/14/13	BB	SW3545
Soil Extraction for SVOA	Completed			05/14/13	JJ/V	SW3545
Mercury Digestion	Completed			05/15/13	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			05/14/13	Z/AG	SW846 - 3050
Field Extraction	Completed			05/13/13		SW5035

### Polychlorinated Biphenyls

PCB-1016	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1221	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1232	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1242	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1248	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1254	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1260	100	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1262	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1268	ND	76	ug/Kg	05/15/13	AW	SW 8082

### QA/QC Surrogates

% DCBP	88		%	05/15/13	AW	30 - 150 %
% TCMX	66		%	05/15/13	AW	30 - 150 %

### Pesticides

4,4' -DDD	ND*	36	ug/Kg	05/16/13	MH	SW8081
4,4' -DDE	ND*	36	ug/Kg	05/16/13	MH	SW8081
4,4' -DDT	54	36	ug/Kg	05/16/13	MH	SW8081
a-BHC	ND*	18	ug/Kg	05/16/13	MH	SW8081
Alachlor	ND*	18	ug/Kg	05/16/13	MH	SW8081
Aldrin	ND*	5.7	ug/Kg	05/16/13	MH	SW8081
b-BHC	ND*	18	ug/Kg	05/16/13	MH	SW8081
Chlordane	220	57	ug/Kg	05/16/13	MH	SW8081
d-BHC	ND*	18	ug/Kg	05/16/13	MH	SW8081
Dieldrin	ND*	5.7	ug/Kg	05/16/13	MH	SW8081
Endosulfan I	ND*	18	ug/Kg	05/16/13	MH	SW8081
Endosulfan II	ND*	36	ug/Kg	05/16/13	MH	SW8081
Endosulfan sulfate	ND*	36	ug/Kg	05/16/13	MH	SW8081
Endrin	ND*	36	ug/Kg	05/16/13	MH	SW8081
Endrin aldehyde	ND*	36	ug/Kg	05/16/13	MH	SW8081
Endrin ketone	ND*	36	ug/Kg	05/16/13	MH	SW8081
g-BHC	ND*	5.7	ug/Kg	05/16/13	MH	SW8081
Heptachlor	ND*	11	ug/Kg	05/16/13	MH	SW8081
Heptachlor epoxide	ND*	18	ug/Kg	05/16/13	MH	SW8081
Methoxychlor	ND*	180	ug/Kg	05/16/13	MH	SW8081
Toxaphene	ND*	180	ug/Kg	05/16/13	MH	SW8081

### QA/QC Surrogates

% DCBP	91		%	05/16/13	MH	30 - 150 %
% TCMX	89		%	05/16/13	MH	30 - 150 %

### Volatiles

1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,1-Dichloropropene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	26	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
4-Chlorotoluene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	05/15/13	R/J	SW8260
Acetone	ND	26	ug/Kg	05/15/13	R/J	SW8260
Acrylonitrile	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Benzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Bromobenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Bromochloromethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Bromodichloromethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Bromoform	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Bromomethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Carbon Disulfide	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Carbon tetrachloride	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Chlorobenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Chloroethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Chloroform	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Chloromethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Dibromochloromethane	ND	3.2	ug/Kg	05/15/13	R/J	SW8260
Dibromomethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Ethylbenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Hexachlorobutadiene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Isopropylbenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
m&p-Xylene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	05/15/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260
Methylene chloride	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Naphthalene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
n-Butylbenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
n-Propylbenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
o-Xylene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
p-Isopropyltoluene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
sec-Butylbenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Styrene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
tert-Butylbenzene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Tetrachloroethene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260
Toluene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Total Xylenes	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260
Trichloroethene	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Trichlorofluoromethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
Vinyl chloride	ND	5.3	ug/Kg	05/15/13	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	100		%	05/15/13	R/J	70 - 130 %
% Bromofluorobenzene	101		%	05/15/13	R/J	70 - 130 %
% Dibromofluoromethane	100		%	05/15/13	R/J	70 - 130 %
% Toluene-d8	102		%	05/15/13	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	530	ug/Kg	05/16/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	530	ug/Kg	05/16/13	DD	SW 8270
1,2-Dichlorobenzene	ND	530	ug/Kg	05/16/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	760	ug/Kg	05/16/13	DD	SW 8270
1,3-Dichlorobenzene	ND	530	ug/Kg	05/16/13	DD	SW 8270
1,4-Dichlorobenzene	ND	530	ug/Kg	05/16/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	530	ug/Kg	05/16/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	530	ug/Kg	05/16/13	DD	SW 8270
2,4-Dichlorophenol	ND	530	ug/Kg	05/16/13	DD	SW 8270
2,4-Dimethylphenol	ND	530	ug/Kg	05/16/13	DD	SW 8270
2,4-Dinitrophenol	ND	1200	ug/Kg	05/16/13	DD	SW 8270
2,4-Dinitrotoluene	ND	530	ug/Kg	05/16/13	DD	SW 8270
2,6-Dinitrotoluene	ND	530	ug/Kg	05/16/13	DD	SW 8270
2-Chloronaphthalene	ND	530	ug/Kg	05/16/13	DD	SW 8270
2-Chlorophenol	ND	530	ug/Kg	05/16/13	DD	SW 8270
2-Methylnaphthalene	ND	530	ug/Kg	05/16/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	530	ug/Kg	05/16/13	DD	SW 8270
2-Nitroaniline	ND	1200	ug/Kg	05/16/13	DD	SW 8270
2-Nitrophenol	ND	530	ug/Kg	05/16/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	760	ug/Kg	05/16/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	530	ug/Kg	05/16/13	DD	SW 8270
3-Nitroaniline	ND	1200	ug/Kg	05/16/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	2200	ug/Kg	05/16/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	760	ug/Kg	05/16/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	530	ug/Kg	05/16/13	DD	SW 8270
4-Chloroaniline	ND	530	ug/Kg	05/16/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	530	ug/Kg	05/16/13	DD	SW 8270
4-Nitroaniline	ND	1200	ug/Kg	05/16/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Nitrophenol	ND	2200	ug/Kg	05/16/13	DD	SW 8270
Acenaphthene	ND	530	ug/Kg	05/16/13	DD	SW 8270
Acenaphthylene	ND	530	ug/Kg	05/16/13	DD	SW 8270
Acetophenone	ND	530	ug/Kg	05/16/13	DD	SW 8270
Aniline	ND	2200	ug/Kg	05/16/13	DD	SW 8270
Anthracene	890	530	ug/Kg	05/16/13	DD	SW 8270
Benz(a)anthracene	3300	530	ug/Kg	05/16/13	DD	SW 8270
Benzidine	ND	920	ug/Kg	05/16/13	DD	SW 8270
Benzo(a)pyrene	2900	530	ug/Kg	05/16/13	DD	SW 8270
Benzo(b)fluoranthene	4300	530	ug/Kg	05/16/13	DD	SW 8270
Benzo(ghi)perylene	1200	530	ug/Kg	05/16/13	DD	SW 8270
Benzo(k)fluoranthene	1600	530	ug/Kg	05/16/13	DD	SW 8270
Benzoic acid	ND	2200	ug/Kg	05/16/13	DD	SW 8270 10
Benzyl butyl phthalate	ND	530	ug/Kg	05/16/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	530	ug/Kg	05/16/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	760	ug/Kg	05/16/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	530	ug/Kg	05/16/13	DD	SW 8270 1
Bis(2-ethylhexyl)phthalate	1200	530	ug/Kg	05/16/13	DD	SW 8270
Carbazole	ND	1100	ug/Kg	05/16/13	DD	SW 8270
Chrysene	3500	530	ug/Kg	05/16/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	530	ug/Kg	05/16/13	DD	SW 8270
Dibenzofuran	ND	530	ug/Kg	05/16/13	DD	SW 8270
Diethyl phthalate	ND	530	ug/Kg	05/16/13	DD	SW 8270
Dimethylphthalate	ND	530	ug/Kg	05/16/13	DD	SW 8270
Di-n-butylphthalate	ND	530	ug/Kg	05/16/13	DD	SW 8270
Di-n-octylphthalate	ND	530	ug/Kg	05/16/13	DD	SW 8270
Fluoranthene	5600	530	ug/Kg	05/16/13	DD	SW 8270
Fluorene	ND	530	ug/Kg	05/16/13	DD	SW 8270
Hexachlorobenzene	ND	530	ug/Kg	05/16/13	DD	SW 8270
Hexachlorobutadiene	ND	530	ug/Kg	05/16/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	530	ug/Kg	05/16/13	DD	SW 8270
Hexachloroethane	ND	530	ug/Kg	05/16/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	1100	530	ug/Kg	05/16/13	DD	SW 8270
Isophorone	ND	530	ug/Kg	05/16/13	DD	SW 8270
Naphthalene	ND	530	ug/Kg	05/16/13	DD	SW 8270
Nitrobenzene	ND	530	ug/Kg	05/16/13	DD	SW 8270
N-Nitrosodimethylamine	ND	760	ug/Kg	05/16/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	530	ug/Kg	05/16/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	760	ug/Kg	05/16/13	DD	SW 8270
Pentachloronitrobenzene	ND	760	ug/Kg	05/16/13	DD	SW 8270
Pentachlorophenol	ND	760	ug/Kg	05/16/13	DD	SW 8270
Phenanthrene	4300	530	ug/Kg	05/16/13	DD	SW 8270
Phenol	ND	530	ug/Kg	05/16/13	DD	SW 8270
Pyrene	5200	530	ug/Kg	05/16/13	DD	SW 8270
Pyridine	ND	760	ug/Kg	05/16/13	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	73		%	05/16/13	DD	30 - 130 %
% 2-Fluorobiphenyl	64		%	05/16/13	DD	30 - 130 %
% 2-Fluorophenol	65		%	05/16/13	DD	30 - 130 %
% Nitrobenzene-d5	60		%	05/16/13	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	56		%	05/16/13	DD	30 - 130 %
% Terphenyl-d14	56		%	05/16/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

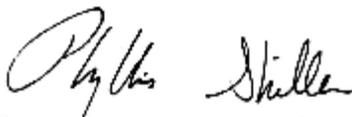
\* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

\* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



**Phyllis Shiller, Laboratory Director**

**May 21, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

May 21, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

## Date

05/13/13  
 05/14/13

## Time

8:30  
 14:38

## Laboratory Data

SDG ID: GBD78164  
 Phoenix ID: BD78165

Project ID: 82 THROOP AVE., BROOKLYN  
 Client ID: SB1 8-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	05/15/13	LK	SW6010
Aluminum	8580	54	mg/Kg	05/15/13	LK	SW6010
Arsenic	1.2	0.7	mg/Kg	05/15/13	LK	SW6010
Barium	36.4	0.36	mg/Kg	05/15/13	LK	SW6010
Beryllium	0.39	0.29	mg/Kg	05/15/13	LK	SW6010
Calcium	1220	5.4	mg/Kg	05/15/13	LK	SW6010
Cadmium	< 0.36	0.36	mg/Kg	05/15/13	LK	SW6010
Cobalt	4.39	0.36	mg/Kg	05/15/13	LK	SW6010
Chromium	14.9	0.36	mg/Kg	05/15/13	LK	SW6010
Copper	14.0	0.36	mg/kg	05/15/13	LK	SW6010
Iron	9520	54	mg/Kg	05/15/13	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	05/15/13	RS	SW-7471
Potassium	933	5.4	mg/Kg	05/15/13	LK	SW6010
Magnesium	2170	5.4	mg/Kg	05/15/13	LK	SW6010
Manganese	135	0.36	mg/Kg	05/15/13	LK	SW6010
Sodium	72.6	5.4	mg/Kg	05/15/13	LK	SW6010
Nickel	10.6	0.36	mg/Kg	05/15/13	LK	SW6010
Lead	14.8	0.36	mg/Kg	05/15/13	LK	SW6010
Antimony	< 3.6	3.6	mg/Kg	05/15/13	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	05/15/13	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	05/15/13	LK	SW6010
Vanadium	21.9	0.36	mg/Kg	05/15/13	LK	SW6010
Zinc	26.4	0.36	mg/Kg	05/15/13	LK	SW6010
Percent Solid	87		%	05/15/13	JL	E160.3
Soil Extraction for PCB	Completed			05/14/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed			05/14/13	BB	SW3545
Soil Extraction for SVOA	Completed			05/14/13	JJ/V	SW3545
Mercury Digestion	Completed			05/15/13	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			05/14/13	Z/AG	SW846 - 3050
Field Extraction	Completed			05/13/13		SW5035

### Polychlorinated Biphenyls

PCB-1016	ND	75	ug/Kg	05/15/13	AW	SW 8082
PCB-1221	ND	75	ug/Kg	05/15/13	AW	SW 8082
PCB-1232	ND	75	ug/Kg	05/15/13	AW	SW 8082
PCB-1242	ND	75	ug/Kg	05/15/13	AW	SW 8082
PCB-1248	ND	75	ug/Kg	05/15/13	AW	SW 8082
PCB-1254	ND	75	ug/Kg	05/15/13	AW	SW 8082
PCB-1260	ND	75	ug/Kg	05/15/13	AW	SW 8082
PCB-1262	ND	75	ug/Kg	05/15/13	AW	SW 8082
PCB-1268	ND	75	ug/Kg	05/15/13	AW	SW 8082

### QA/QC Surrogates

% DCBP	84		%	05/15/13	AW	30 - 150 %
% TCMX	72		%	05/15/13	AW	30 - 150 %

### Pesticides

4,4' -DDD	ND	2.2	ug/Kg	05/16/13	MH	SW8081
4,4' -DDE	ND	2.2	ug/Kg	05/16/13	MH	SW8081
4,4' -DDT	ND	2.2	ug/Kg	05/16/13	MH	SW8081
a-BHC	ND	3.6	ug/Kg	05/16/13	MH	SW8081
Alachlor	ND	3.6	ug/Kg	05/16/13	MH	SW8081
Aldrin	ND	1.1	ug/Kg	05/16/13	MH	SW8081
b-BHC	ND	3.6	ug/Kg	05/16/13	MH	SW8081
Chlordane	ND	11	ug/Kg	05/16/13	MH	SW8081
d-BHC	ND	3.6	ug/Kg	05/16/13	MH	SW8081
Dieldrin	ND	1.1	ug/Kg	05/16/13	MH	SW8081
Endosulfan I	ND	3.6	ug/Kg	05/16/13	MH	SW8081
Endosulfan II	ND	7.2	ug/Kg	05/16/13	MH	SW8081
Endosulfan sulfate	ND	7.2	ug/Kg	05/16/13	MH	SW8081
Endrin	ND	7.2	ug/Kg	05/16/13	MH	SW8081
Endrin aldehyde	ND	7.2	ug/Kg	05/16/13	MH	SW8081
Endrin ketone	ND	7.2	ug/Kg	05/16/13	MH	SW8081
g-BHC	ND	1.1	ug/Kg	05/16/13	MH	SW8081
Heptachlor	ND	2.2	ug/Kg	05/16/13	MH	SW8081
Heptachlor epoxide	ND	3.6	ug/Kg	05/16/13	MH	SW8081
Methoxychlor	ND	36	ug/Kg	05/16/13	MH	SW8081
Toxaphene	ND	36	ug/Kg	05/16/13	MH	SW8081

### QA/QC Surrogates

% DCBP	99		%	05/16/13	MH	30 - 150 %
% TCMX	69		%	05/16/13	MH	30 - 150 %

### Volatiles

1,1,1,2-Tetrachloroethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,1,1-Trichloroethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	88	ug/Kg	05/16/13	R/J	SW8260
1,1,2-Trichloroethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,1-Dichloroethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,1-Dichloroethene	ND	150	ug/Kg	05/16/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,1-Dichloropropene	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,2,3-Trichloropropane	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,2-Dibromoethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,2-Dichlorobenzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,2-Dichloroethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,2-Dichloropropane	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,3-Dichlorobenzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,3-Dichloropropane	ND	150	ug/Kg	05/16/13	R/J	SW8260
1,4-Dichlorobenzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
2,2-Dichloropropane	ND	150	ug/Kg	05/16/13	R/J	SW8260
2-Chlorotoluene	ND	150	ug/Kg	05/16/13	R/J	SW8260
2-Hexanone	ND	740	ug/Kg	05/16/13	R/J	SW8260
2-Isopropyltoluene	ND	150	ug/Kg	05/16/13	R/J	SW8260
4-Chlorotoluene	ND	150	ug/Kg	05/16/13	R/J	SW8260
4-Methyl-2-pentanone	ND	740	ug/Kg	05/16/13	R/J	SW8260
Acetone	ND	2900	ug/Kg	05/16/13	R/J	SW8260
Acrylonitrile	ND	150	ug/Kg	05/16/13	R/J	SW8260
Benzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
Bromobenzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
Bromochloromethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
Bromodichloromethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
Bromoform	ND	150	ug/Kg	05/16/13	R/J	SW8260
Bromomethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
Carbon Disulfide	ND	150	ug/Kg	05/16/13	R/J	SW8260
Carbon tetrachloride	ND	150	ug/Kg	05/16/13	R/J	SW8260
Chlorobenzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
Chloroethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
Chloroform	ND	150	ug/Kg	05/16/13	R/J	SW8260
Chloromethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	150	ug/Kg	05/16/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	150	ug/Kg	05/16/13	R/J	SW8260
Dibromochloromethane	ND	88	ug/Kg	05/16/13	R/J	SW8260
Dibromomethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
Dichlorodifluoromethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
Ethylbenzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
Hexachlorobutadiene	ND	150	ug/Kg	05/16/13	R/J	SW8260
Isopropylbenzene	220	150	ug/Kg	05/16/13	R/J	SW8260
m&p-Xylene	ND	150	ug/Kg	05/16/13	R/J	SW8260
Methyl Ethyl Ketone	ND	880	ug/Kg	05/16/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	290	ug/Kg	05/16/13	R/J	SW8260
Methylene chloride	ND	150	ug/Kg	05/16/13	R/J	SW8260
Naphthalene	150	150	ug/Kg	05/16/13	R/J	SW8260
n-Butylbenzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
n-Propylbenzene	310	150	ug/Kg	05/16/13	R/J	SW8260
o-Xylene	ND	150	ug/Kg	05/16/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
p-Isopropyltoluene	ND	150	ug/Kg	05/16/13	R/J	SW8260
sec-Butylbenzene	410	150	ug/Kg	05/16/13	R/J	SW8260
Styrene	ND	150	ug/Kg	05/16/13	R/J	SW8260
tert-Butylbenzene	ND	150	ug/Kg	05/16/13	R/J	SW8260
Tetrachloroethene	ND	150	ug/Kg	05/16/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	290	ug/Kg	05/16/13	R/J	SW8260
Toluene	ND	150	ug/Kg	05/16/13	R/J	SW8260
Total Xylenes	ND	150	ug/Kg	05/16/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	150	ug/Kg	05/16/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	150	ug/Kg	05/16/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	290	ug/Kg	05/16/13	R/J	SW8260
Trichloroethene	ND	150	ug/Kg	05/16/13	R/J	SW8260
Trichlorofluoromethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
Trichlorotrifluoroethane	ND	150	ug/Kg	05/16/13	R/J	SW8260
Vinyl chloride	ND	150	ug/Kg	05/16/13	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	103		%	05/16/13	R/J	70 - 130 %
% Bromofluorobenzene	120		%	05/16/13	R/J	70 - 130 %
% Dibromofluoromethane	97		%	05/16/13	R/J	70 - 130 %
% Toluene-d8	97		%	05/16/13	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	05/15/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4-Dinitrophenol	ND	600	ug/Kg	05/15/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Nitroaniline	ND	600	ug/Kg	05/15/13	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	05/15/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	05/15/13	DD	SW 8270
3-Nitroaniline	ND	600	ug/Kg	05/15/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	05/15/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	05/15/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	05/15/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/15/13	DD	SW 8270
4-Nitroaniline	ND	600	ug/Kg	05/15/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	05/15/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Acetophenone	ND	260	ug/Kg	05/15/13	DD	SW 8270
Aniline	ND	1100	ug/Kg	05/15/13	DD	SW 8270
Anthracene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Benzidine	ND	450	ug/Kg	05/15/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	05/15/13	DD	SW 8270 10
Benzyl butyl phthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/15/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	370	ug/Kg	05/15/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/15/13	DD	SW 8270 1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Carbazole	ND	560	ug/Kg	05/15/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	05/15/13	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Fluoranthene	310	260	ug/Kg	05/15/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	05/15/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Isophorone	ND	260	ug/Kg	05/15/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
N-Nitrosodimethylamine	ND	370	ug/Kg	05/15/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/15/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	05/15/13	DD	SW 8270
Pentachloronitrobenzene	ND	370	ug/Kg	05/15/13	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	05/15/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Phenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
Pyrene	610	260	ug/Kg	05/15/13	DD	SW 8270
Pyridine	ND	370	ug/Kg	05/15/13	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	89		%	05/15/13	DD	30 - 130 %
% 2-Fluorobiphenyl	93		%	05/15/13	DD	30 - 130 %
% 2-Fluorophenol	85		%	05/15/13	DD	30 - 130 %
% Nitrobenzene-d5	66		%	05/15/13	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	65		%	05/15/13	DD	30 - 130 %
% Terphenyl-d14	93		%	05/15/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level

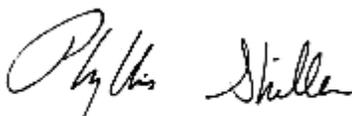
**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**May 21, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 21, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

## Date

05/13/13  
 05/14/13

## Time

9:00  
 14:38

## Laboratory Data

SDG ID: GBD78164  
 Phoenix ID: BD78166

Project ID: 82 THROOP AVE., BROOKLYN  
 Client ID: SB2 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	05/15/13	LK	SW6010
Aluminum	8700	63	mg/Kg	05/15/13	LK	SW6010
Arsenic	9.2	0.8	mg/Kg	05/15/13	LK	SW6010
Barium	642	0.42	mg/Kg	05/15/13	LK	SW6010
Beryllium	0.46	0.33	mg/Kg	05/15/13	LK	SW6010
Calcium	27400	63	mg/Kg	05/15/13	LK	SW6010
Cadmium	1.62	0.42	mg/Kg	05/15/13	LK	SW6010
Cobalt	5.57	0.42	mg/Kg	05/15/13	LK	SW6010
Chromium	19.3	0.42	mg/Kg	05/15/13	LK	SW6010
Copper	55.6	0.42	mg/kg	05/15/13	LK	SW6010
Iron	25200	63	mg/Kg	05/15/13	LK	SW6010
Mercury	0.44	0.07	mg/Kg	05/15/13	RS	SW-7471
Potassium	1110	6.3	mg/Kg	05/15/13	LK	SW6010
Magnesium	3900	6.3	mg/Kg	05/15/13	LK	SW6010
Manganese	353	4.2	mg/Kg	05/15/13	LK	SW6010
Sodium	2930	6.3	mg/Kg	05/15/13	LK	SW6010
Nickel	15.3	0.42	mg/Kg	05/15/13	LK	SW6010
Lead	967	4.2	mg/Kg	05/15/13	LK	SW6010
Antimony	< 4.2	4.2	mg/Kg	05/15/13	LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	05/15/13	LK	SW6010
Thallium	< 0.7	0.7	mg/Kg	05/15/13	LK	SW6010
Vanadium	27.8	0.42	mg/Kg	05/15/13	LK	SW6010
Zinc	537	4.2	mg/Kg	05/15/13	LK	SW6010
Percent Solid	83		%	05/15/13	JL	E160.3
Soil Extraction for PCB	Completed			05/14/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed			05/14/13	BB	SW3545
Soil Extraction for SVOA	Completed			05/14/13	JJ/V	SW3545
Mercury Digestion	Completed			05/15/13	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			05/14/13	Z/AG	SW846 - 3050
Field Extraction	Completed			05/13/13		SW5035

### Polychlorinated Biphenyls

PCB-1016	ND	79	ug/Kg	05/15/13	AW	SW 8082
PCB-1221	ND	79	ug/Kg	05/15/13	AW	SW 8082
PCB-1232	ND	79	ug/Kg	05/15/13	AW	SW 8082
PCB-1242	ND	79	ug/Kg	05/15/13	AW	SW 8082
PCB-1248	ND	79	ug/Kg	05/15/13	AW	SW 8082
PCB-1254	ND	79	ug/Kg	05/15/13	AW	SW 8082
PCB-1260	130	79	ug/Kg	05/15/13	AW	SW 8082
PCB-1262	ND	79	ug/Kg	05/15/13	AW	SW 8082
PCB-1268	ND	79	ug/Kg	05/15/13	AW	SW 8082

### QA/QC Surrogates

% DCBP	78		%	05/15/13	AW	30 - 150 %
% TCMX	66		%	05/15/13	AW	30 - 150 %

### Pesticides

4,4' -DDD	ND*	12	ug/Kg	05/16/13	MH	SW8081
4,4' -DDE	34	12	ug/Kg	05/16/13	MH	SW8081
4,4' -DDT	140	12	ug/Kg	05/16/13	MH	SW8081
a-BHC	ND*	19	ug/Kg	05/16/13	MH	SW8081
Alachlor	ND*	19	ug/Kg	05/16/13	MH	SW8081
Aldrin	ND*	6.0	ug/Kg	05/16/13	MH	SW8081
b-BHC	ND*	19	ug/Kg	05/16/13	MH	SW8081
Chlordane	150	60	ug/Kg	05/16/13	MH	SW8081
d-BHC	ND*	19	ug/Kg	05/16/13	MH	SW8081
Dieldrin	11	6.0	ug/Kg	05/16/13	MH	SW8081
Endosulfan I	ND*	19	ug/Kg	05/16/13	MH	SW8081
Endosulfan II	ND*	38	ug/Kg	05/16/13	MH	SW8081
Endosulfan sulfate	ND*	38	ug/Kg	05/16/13	MH	SW8081
Endrin	ND*	38	ug/Kg	05/16/13	MH	SW8081
Endrin aldehyde	ND*	38	ug/Kg	05/16/13	MH	SW8081
Endrin ketone	ND*	38	ug/Kg	05/16/13	MH	SW8081
g-BHC	ND*	6.0	ug/Kg	05/16/13	MH	SW8081
Heptachlor	ND*	12	ug/Kg	05/16/13	MH	SW8081
Heptachlor epoxide	ND*	19	ug/Kg	05/16/13	MH	SW8081
Methoxychlor	ND*	190	ug/Kg	05/16/13	MH	SW8081
Toxaphene	ND*	190	ug/Kg	05/16/13	MH	SW8081

### QA/QC Surrogates

% DCBP	88		%	05/16/13	MH	30 - 150 %
% TCMX	90		%	05/16/13	MH	30 - 150 %

### Volatiles

1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,1-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	27	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
4-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	05/15/13	R/J	SW8260
Acetone	ND	27	ug/Kg	05/15/13	R/J	SW8260
Acrylonitrile	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Benzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Bromobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Bromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Bromoform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Bromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Chlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Chloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Chloroform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Chloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	05/15/13	R/J	SW8260
Dibromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Ethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Isopropylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
m&p-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	05/15/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260
Methylene chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Naphthalene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
o-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260

1

1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
p-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Styrene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260
Toluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Total Xylenes	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260
Trichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
Vinyl chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	101		%	05/15/13	R/J	70 - 130 %
% Bromofluorobenzene	97		%	05/15/13	R/J	70 - 130 %
% Dibromofluoromethane	106		%	05/15/13	R/J	70 - 130 %
% Toluene-d8	102		%	05/15/13	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	05/16/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	05/16/13	DD	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	05/16/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	400	ug/Kg	05/16/13	DD	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	05/16/13	DD	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	05/16/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	05/16/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	05/16/13	DD	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	05/16/13	DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	05/16/13	DD	SW 8270
2,4-Dinitrophenol	ND	640	ug/Kg	05/16/13	DD	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	05/16/13	DD	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	05/16/13	DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	05/16/13	DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	05/16/13	DD	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	05/16/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	05/16/13	DD	SW 8270
2-Nitroaniline	ND	640	ug/Kg	05/16/13	DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	05/16/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	05/16/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	280	ug/Kg	05/16/13	DD	SW 8270
3-Nitroaniline	ND	640	ug/Kg	05/16/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	05/16/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	400	ug/Kg	05/16/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	280	ug/Kg	05/16/13	DD	SW 8270
4-Chloroaniline	ND	280	ug/Kg	05/16/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	05/16/13	DD	SW 8270
4-Nitroaniline	ND	640	ug/Kg	05/16/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Nitrophenol	ND	1200	ug/Kg	05/16/13	DD	SW 8270
Acenaphthene	360	280	ug/Kg	05/16/13	DD	SW 8270
Acenaphthylene	ND	280	ug/Kg	05/16/13	DD	SW 8270
Acetophenone	ND	280	ug/Kg	05/16/13	DD	SW 8270
Aniline	ND	1200	ug/Kg	05/16/13	DD	SW 8270
Anthracene	1100	280	ug/Kg	05/16/13	DD	SW 8270
Benz(a)anthracene	3100	280	ug/Kg	05/16/13	DD	SW 8270
Benzidine	ND	480	ug/Kg	05/16/13	DD	SW 8270
Benzo(a)pyrene	2700	280	ug/Kg	05/16/13	DD	SW 8270
Benzo(b)fluoranthene	4000	280	ug/Kg	05/16/13	DD	SW 8270
Benzo(ghi)perylene	970	280	ug/Kg	05/16/13	DD	SW 8270
Benzo(k)fluoranthene	1300	280	ug/Kg	05/16/13	DD	SW 8270
Benzoic acid	ND	1200	ug/Kg	05/16/13	DD	SW 8270 10
Benzyl butyl phthalate	570	280	ug/Kg	05/16/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	05/16/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	400	ug/Kg	05/16/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	05/16/13	DD	SW 8270 1
Bis(2-ethylhexyl)phthalate	840	280	ug/Kg	05/16/13	DD	SW 8270
Carbazole	830	600	ug/Kg	05/16/13	DD	SW 8270
Chrysene	3300	280	ug/Kg	05/16/13	DD	SW 8270
Dibenz(a,h)anthracene	310	280	ug/Kg	05/16/13	DD	SW 8270
Dibenzofuran	ND	280	ug/Kg	05/16/13	DD	SW 8270
Diethyl phthalate	ND	280	ug/Kg	05/16/13	DD	SW 8270
Dimethylphthalate	ND	280	ug/Kg	05/16/13	DD	SW 8270
Di-n-butylphthalate	ND	280	ug/Kg	05/16/13	DD	SW 8270
Di-n-octylphthalate	ND	280	ug/Kg	05/16/13	DD	SW 8270
Fluoranthene	5900	280	ug/Kg	05/16/13	DD	SW 8270
Fluorene	410	280	ug/Kg	05/16/13	DD	SW 8270
Hexachlorobenzene	ND	280	ug/Kg	05/16/13	DD	SW 8270
Hexachlorobutadiene	ND	280	ug/Kg	05/16/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	280	ug/Kg	05/16/13	DD	SW 8270
Hexachloroethane	ND	280	ug/Kg	05/16/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	900	280	ug/Kg	05/16/13	DD	SW 8270
Isophorone	ND	280	ug/Kg	05/16/13	DD	SW 8270
Naphthalene	ND	280	ug/Kg	05/16/13	DD	SW 8270
Nitrobenzene	ND	280	ug/Kg	05/16/13	DD	SW 8270
N-Nitrosodimethylamine	ND	400	ug/Kg	05/16/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	05/16/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	400	ug/Kg	05/16/13	DD	SW 8270
Pentachloronitrobenzene	ND	400	ug/Kg	05/16/13	DD	SW 8270
Pentachlorophenol	ND	400	ug/Kg	05/16/13	DD	SW 8270
Phenanthrene	5300	280	ug/Kg	05/16/13	DD	SW 8270
Phenol	ND	280	ug/Kg	05/16/13	DD	SW 8270
Pyrene	5600	280	ug/Kg	05/16/13	DD	SW 8270
Pyridine	ND	400	ug/Kg	05/16/13	DD	SW 8270
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	106		%	05/16/13	DD	30 - 130 %
% 2-Fluorobiphenyl	87		%	05/16/13	DD	30 - 130 %
% 2-Fluorophenol	87		%	05/16/13	DD	30 - 130 %
% Nitrobenzene-d5	82		%	05/16/13	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	76		%	05/16/13	DD	30 - 130 %
% Terphenyl-d14	77		%	05/16/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

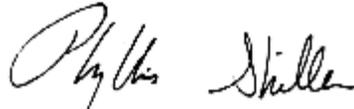
**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**May 21, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 21, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

## Date

05/13/13  
 05/14/13

## Time

9:30  
 14:38

## Laboratory Data

SDG ID: GBD78164  
 Phoenix ID: BD78167

Project ID: 82 THROOP AVE., BROOKLYN  
 Client ID: SB2 8-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	05/15/13	LK	SW6010
Aluminum	8250	59	mg/Kg	05/15/13	LK	SW6010
Arsenic	3.7	0.8	mg/Kg	05/15/13	LK	SW6010
Barium	85.2	0.39	mg/Kg	05/15/13	LK	SW6010
Beryllium	0.42	0.31	mg/Kg	05/15/13	LK	SW6010
Calcium	23400	59	mg/Kg	05/15/13	LK	SW6010
Cadmium	0.76	0.39	mg/Kg	05/15/13	LK	SW6010
Cobalt	5.03	0.39	mg/Kg	05/15/13	LK	SW6010
Chromium	22.2	0.39	mg/Kg	05/15/13	LK	SW6010
Copper	42.4	0.39	mg/kg	05/15/13	LK	SW6010
Iron	16300	59	mg/Kg	05/15/13	LK	SW6010
Mercury	0.11	0.08	mg/Kg	05/15/13	RS	SW-7471
Potassium	1870	5.9	mg/Kg	05/15/13	LK	SW6010
Magnesium	4020	5.9	mg/Kg	05/15/13	LK	SW6010
Manganese	227	3.9	mg/Kg	05/15/13	LK	SW6010
Sodium	137	5.9	mg/Kg	05/15/13	LK	SW6010
Nickel	13.6	0.39	mg/Kg	05/15/13	LK	SW6010
Lead	51.8	0.39	mg/Kg	05/15/13	LK	SW6010
Antimony	< 3.9	3.9	mg/Kg	05/15/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	05/15/13	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	05/15/13	LK	SW6010
Vanadium	39.5	0.39	mg/Kg	05/15/13	LK	SW6010
Zinc	190	3.9	mg/Kg	05/15/13	LK	SW6010
Percent Solid	89		%	05/15/13	JL	E160.3
Soil Extraction for PCB	Completed			05/14/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed			05/14/13	BB	SW3545
Soil Extraction for SVOA	Completed			05/14/13	JJ/V	SW3545
Mercury Digestion	Completed			05/15/13	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			05/14/13	Z/AG	SW846 - 3050
Field Extraction	Completed			05/13/13		SW5035

### Polychlorinated Biphenyls

PCB-1016	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1221	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1232	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1242	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1248	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1254	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1260	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1262	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1268	ND	74	ug/Kg	05/15/13	AW	SW 8082

### QA/QC Surrogates

% DCBP	69		%	05/15/13	AW	30 - 150 %
% TCMX	67		%	05/15/13	AW	30 - 150 %

### Pesticides

4,4' -DDD	3.6	2.2	ug/Kg	05/16/13	MH	SW8081
4,4' -DDE	ND	2.2	ug/Kg	05/16/13	MH	SW8081
4,4' -DDT	3.0	2.2	ug/Kg	05/16/13	MH	SW8081
a-BHC	ND	3.6	ug/Kg	05/16/13	MH	SW8081
Alachlor	ND	3.6	ug/Kg	05/16/13	MH	SW8081
Aldrin	ND	1.1	ug/Kg	05/16/13	MH	SW8081
b-BHC	ND	3.6	ug/Kg	05/16/13	MH	SW8081
Chlordane	ND	11	ug/Kg	05/16/13	MH	SW8081
d-BHC	ND	3.6	ug/Kg	05/16/13	MH	SW8081
Dieldrin	ND	1.1	ug/Kg	05/16/13	MH	SW8081
Endosulfan I	ND	3.6	ug/Kg	05/16/13	MH	SW8081
Endosulfan II	ND	7.1	ug/Kg	05/16/13	MH	SW8081
Endosulfan sulfate	ND	7.1	ug/Kg	05/16/13	MH	SW8081
Endrin	ND	7.1	ug/Kg	05/16/13	MH	SW8081
Endrin aldehyde	ND	7.1	ug/Kg	05/16/13	MH	SW8081
Endrin ketone	ND	7.1	ug/Kg	05/16/13	MH	SW8081
g-BHC	ND	1.1	ug/Kg	05/16/13	MH	SW8081
Heptachlor	ND	2.2	ug/Kg	05/16/13	MH	SW8081
Heptachlor epoxide	ND	3.6	ug/Kg	05/16/13	MH	SW8081
Methoxychlor	ND	36	ug/Kg	05/16/13	MH	SW8081
Toxaphene	ND	36	ug/Kg	05/16/13	MH	SW8081

### QA/QC Surrogates

% DCBP	74		%	05/16/13	MH	30 - 150 %
% TCMX	63		%	05/16/13	MH	30 - 150 %

### Volatiles

1,1,1,2-Tetrachloroethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,1-Dichloropropene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	33	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
4-Chlorotoluene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
4-Methyl-2-pentanone	ND	33	ug/Kg	05/15/13	R/J	SW8260
Acetone	ND	33	ug/Kg	05/15/13	R/J	SW8260
Acrylonitrile	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Benzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Bromobenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Bromochloromethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Bromodichloromethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Bromoform	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Bromomethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Carbon Disulfide	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Carbon tetrachloride	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Chlorobenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Chloroethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Chloroform	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Chloromethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Dibromochloromethane	ND	4.0	ug/Kg	05/15/13	R/J	SW8260
Dibromomethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Ethylbenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Hexachlorobutadiene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Isopropylbenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
m&p-Xylene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Methyl Ethyl Ketone	ND	40	ug/Kg	05/15/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	05/15/13	R/J	SW8260
Methylene chloride	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Naphthalene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
n-Butylbenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
n-Propylbenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
o-Xylene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
p-Isopropyltoluene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
sec-Butylbenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Styrene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
tert-Butylbenzene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Tetrachloroethene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	05/15/13	R/J	SW8260
Toluene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Total Xylenes	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	05/15/13	R/J	SW8260
Trichloroethene	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Trichlorofluoromethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
Vinyl chloride	ND	6.7	ug/Kg	05/15/13	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	99		%	05/15/13	R/J	70 - 130 %
% Bromofluorobenzene	96		%	05/15/13	R/J	70 - 130 %
% Dibromofluoromethane	102		%	05/15/13	R/J	70 - 130 %
% Toluene-d8	103		%	05/15/13	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	05/15/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	05/15/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Nitroaniline	ND	590	ug/Kg	05/15/13	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	05/15/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	05/15/13	DD	SW 8270
3-Nitroaniline	ND	590	ug/Kg	05/15/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	05/15/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	05/15/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	05/15/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/15/13	DD	SW 8270
4-Nitroaniline	ND	590	ug/Kg	05/15/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	05/15/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Acetophenone	ND	260	ug/Kg	05/15/13	DD	SW 8270
Aniline	ND	1100	ug/Kg	05/15/13	DD	SW 8270
Anthracene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Benz(a)anthracene	510	260	ug/Kg	05/15/13	DD	SW 8270
Benzidine	ND	450	ug/Kg	05/15/13	DD	SW 8270
Benzo(a)pyrene	370	260	ug/Kg	05/15/13	DD	SW 8270
Benzo(b)fluoranthene	480	260	ug/Kg	05/15/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	05/15/13	DD	SW 8270 10
Benzyl butyl phthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/15/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	370	ug/Kg	05/15/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/15/13	DD	SW 8270 1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Carbazole	ND	560	ug/Kg	05/15/13	DD	SW 8270
Chrysene	500	260	ug/Kg	05/15/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	05/15/13	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Fluoranthene	1200	260	ug/Kg	05/15/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	05/15/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Isophorone	ND	260	ug/Kg	05/15/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
N-Nitrosodimethylamine	ND	370	ug/Kg	05/15/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/15/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	05/15/13	DD	SW 8270
Pentachloronitrobenzene	ND	370	ug/Kg	05/15/13	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	05/15/13	DD	SW 8270
Phenanthrene	1100	260	ug/Kg	05/15/13	DD	SW 8270
Phenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
Pyrene	970	260	ug/Kg	05/15/13	DD	SW 8270
Pyridine	ND	370	ug/Kg	05/15/13	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	87		%	05/15/13	DD	30 - 130 %
% 2-Fluorobiphenyl	82		%	05/15/13	DD	30 - 130 %
% 2-Fluorophenol	88		%	05/15/13	DD	30 - 130 %
% Nitrobenzene-d5	82		%	05/15/13	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	75		%	05/15/13	DD	30 - 130 %
% Terphenyl-d14	84		%	05/15/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
1O = This parameter is not certified by NY NELAC for this matrix.

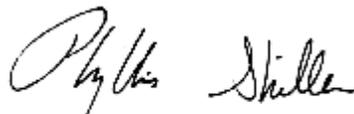
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**May 21, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

May 21, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

## Date

05/13/13  
 05/14/13

## Time

10:00  
 14:38

## Laboratory Data

SDG ID: GBD78164  
 Phoenix ID: BD78168

Project ID: 82 THROOP AVE., BROOKLYN  
 Client ID: SB3 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	05/15/13	LK	SW6010
Aluminum	9820	60	mg/Kg	05/15/13	LK	SW6010
Arsenic	5.7	0.8	mg/Kg	05/15/13	LK	SW6010
Barium	449	0.40	mg/Kg	05/15/13	LK	SW6010
Beryllium	0.44	0.32	mg/Kg	05/15/13	LK	SW6010
Calcium	16300	60	mg/Kg	05/15/13	LK	SW6010
Cadmium	1.28	0.40	mg/Kg	05/15/13	LK	SW6010
Cobalt	5.64	0.40	mg/Kg	05/15/13	LK	SW6010
Chromium	22.2	0.40	mg/Kg	05/15/13	LK	SW6010
Copper	60.6	0.40	mg/kg	05/15/13	LK	SW6010
Iron	17600	60	mg/Kg	05/15/13	LK	SW6010
Mercury	0.86	0.07	mg/Kg	05/15/13	RS	SW-7471
Potassium	1110	6.0	mg/Kg	05/15/13	LK	SW6010
Magnesium	3190	6.0	mg/Kg	05/15/13	LK	SW6010
Manganese	247	4.0	mg/Kg	05/15/13	LK	SW6010
Sodium	157	6.0	mg/Kg	05/15/13	LK	SW6010
Nickel	16.1	0.40	mg/Kg	05/15/13	LK	SW6010
Lead	583	4.0	mg/Kg	05/15/13	LK	SW6010
Antimony	< 4.0	4.0	mg/Kg	05/15/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	05/15/13	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	05/15/13	LK	SW6010
Vanadium	27.8	0.40	mg/Kg	05/15/13	LK	SW6010
Zinc	417	4.0	mg/Kg	05/15/13	LK	SW6010
Percent Solid	85		%	05/15/13	JL	E160.3
Soil Extraction for PCB	Completed			05/14/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed			05/14/13	BB	SW3545
Soil Extraction for SVOA	Completed			05/14/13	JJ/V	SW3545
Mercury Digestion	Completed			05/15/13	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			05/14/13	Z/AG	SW846 - 3050
Field Extraction	Completed			05/13/13		SW5035

### Polychlorinated Biphenyls

PCB-1016	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1221	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1232	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1242	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1248	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1254	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1260	120	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1262	ND	76	ug/Kg	05/15/13	AW	SW 8082
PCB-1268	ND	76	ug/Kg	05/15/13	AW	SW 8082

### QA/QC Surrogates

% DCBP	72		%	05/15/13	AW	30 - 150 %
% TCMX	61		%	05/15/13	AW	30 - 150 %

### Pesticides

4,4' -DDD	ND*	11	ug/Kg	05/16/13	MH	SW8081
4,4' -DDE	ND*	11	ug/Kg	05/16/13	MH	SW8081
4,4' -DDT	ND*	61	ug/Kg	05/16/13	MH	SW8081
a-BHC	ND*	18	ug/Kg	05/16/13	MH	SW8081
Alachlor	ND*	18	ug/Kg	05/16/13	MH	SW8081
Aldrin	ND*	5.7	ug/Kg	05/16/13	MH	SW8081
b-BHC	ND*	18	ug/Kg	05/16/13	MH	SW8081
Chlordane	ND*	130	ug/Kg	05/16/13	MH	SW8081
d-BHC	ND*	18	ug/Kg	05/16/13	MH	SW8081
Dieldrin	ND*	5.7	ug/Kg	05/16/13	MH	SW8081
Endosulfan I	ND*	18	ug/Kg	05/16/13	MH	SW8081
Endosulfan II	ND*	37	ug/Kg	05/16/13	MH	SW8081
Endosulfan sulfate	ND*	37	ug/Kg	05/16/13	MH	SW8081
Endrin	ND*	37	ug/Kg	05/16/13	MH	SW8081
Endrin aldehyde	ND*	37	ug/Kg	05/16/13	MH	SW8081
Endrin ketone	ND*	37	ug/Kg	05/16/13	MH	SW8081
g-BHC	ND*	5.7	ug/Kg	05/16/13	MH	SW8081
Heptachlor	ND*	11	ug/Kg	05/16/13	MH	SW8081
Heptachlor epoxide	ND*	18	ug/Kg	05/16/13	MH	SW8081
Methoxychlor	ND*	180	ug/Kg	05/16/13	MH	SW8081
Toxaphene	ND*	180	ug/Kg	05/16/13	MH	SW8081

### QA/QC Surrogates

% DCBP	86		%	05/16/13	MH	30 - 150 %
% TCMX	83		%	05/16/13	MH	30 - 150 %

### Volatiles

1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,1-Dichloropropene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	29	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
4-Chlorotoluene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	05/15/13	R/J	SW8260
Acetone	ND	29	ug/Kg	05/15/13	R/J	SW8260
Acrylonitrile	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Benzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Bromoform	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Bromomethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Chloroethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Chloroform	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Chloromethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	05/15/13	R/J	SW8260
Dibromomethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	05/15/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260
Methylene chloride	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Naphthalene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
o-Xylene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
p-Isopropyltoluene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Styrene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260
Toluene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Total Xylenes	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	100		%	05/15/13	R/J	70 - 130 %
% Bromofluorobenzene	96		%	05/15/13	R/J	70 - 130 %
% Dibromofluoromethane	109		%	05/15/13	R/J	70 - 130 %
% Toluene-d8	102		%	05/15/13	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	05/16/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	05/16/13	DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	05/16/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	390	ug/Kg	05/16/13	DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	05/16/13	DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	05/16/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	05/16/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	05/16/13	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	05/16/13	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	05/16/13	DD	SW 8270
2,4-Dinitrophenol	ND	620	ug/Kg	05/16/13	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	05/16/13	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	05/16/13	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	05/16/13	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	05/16/13	DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	05/16/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	05/16/13	DD	SW 8270
2-Nitroaniline	ND	620	ug/Kg	05/16/13	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	05/16/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	05/16/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	270	ug/Kg	05/16/13	DD	SW 8270
3-Nitroaniline	ND	620	ug/Kg	05/16/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	05/16/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	390	ug/Kg	05/16/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	05/16/13	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	05/16/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	05/16/13	DD	SW 8270
4-Nitroaniline	ND	620	ug/Kg	05/16/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	05/16/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	05/16/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	05/16/13	DD	SW 8270
Acetophenone	ND	270	ug/Kg	05/16/13	DD	SW 8270
Aniline	ND	1100	ug/Kg	05/16/13	DD	SW 8270
Anthracene	490	270	ug/Kg	05/16/13	DD	SW 8270
Benz(a)anthracene	2300	270	ug/Kg	05/16/13	DD	SW 8270
Benzidine	ND	470	ug/Kg	05/16/13	DD	SW 8270
Benzo(a)pyrene	2100	270	ug/Kg	05/16/13	DD	SW 8270
Benzo(b)fluoranthene	3100	270	ug/Kg	05/16/13	DD	SW 8270
Benzo(ghi)perylene	650	270	ug/Kg	05/16/13	DD	SW 8270
Benzo(k)fluoranthene	1100	270	ug/Kg	05/16/13	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	05/16/13	DD	SW 8270
Benzyl butyl phthalate	500	270	ug/Kg	05/16/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	05/16/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	390	ug/Kg	05/16/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	05/16/13	DD	SW 8270
Bis(2-ethylhexyl)phthalate	360	270	ug/Kg	05/16/13	DD	SW 8270
Carbazole	ND	580	ug/Kg	05/16/13	DD	SW 8270
Chrysene	2400	270	ug/Kg	05/16/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	05/16/13	DD	SW 8270
Dibenzofuran	ND	270	ug/Kg	05/16/13	DD	SW 8270
Diethyl phthalate	ND	270	ug/Kg	05/16/13	DD	SW 8270
Dimethylphthalate	ND	270	ug/Kg	05/16/13	DD	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	05/16/13	DD	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	05/16/13	DD	SW 8270
Fluoranthene	3900	270	ug/Kg	05/16/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	05/16/13	DD	SW 8270
Hexachlorobenzene	ND	270	ug/Kg	05/16/13	DD	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	05/16/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	05/16/13	DD	SW 8270
Hexachloroethane	ND	270	ug/Kg	05/16/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	630	270	ug/Kg	05/16/13	DD	SW 8270
Isophorone	ND	270	ug/Kg	05/16/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	05/16/13	DD	SW 8270
Nitrobenzene	ND	270	ug/Kg	05/16/13	DD	SW 8270
N-Nitrosodimethylamine	ND	390	ug/Kg	05/16/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	05/16/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	390	ug/Kg	05/16/13	DD	SW 8270
Pentachloronitrobenzene	ND	390	ug/Kg	05/16/13	DD	SW 8270
Pentachlorophenol	ND	390	ug/Kg	05/16/13	DD	SW 8270
Phenanthrene	2300	270	ug/Kg	05/16/13	DD	SW 8270
Phenol	ND	270	ug/Kg	05/16/13	DD	SW 8270
Pyrene	3600	270	ug/Kg	05/16/13	DD	SW 8270
Pyridine	ND	390	ug/Kg	05/16/13	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	105		%	05/16/13	DD	30 - 130 %
% 2-Fluorobiphenyl	83		%	05/16/13	DD	30 - 130 %
% 2-Fluorophenol	83		%	05/16/13	DD	30 - 130 %
% Nitrobenzene-d5	78		%	05/16/13	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	76		%	05/16/13	DD	30 - 130 %
% Terphenyl-d14	78		%	05/16/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

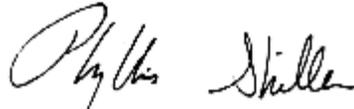
**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* For Pesticides, due to matrix interference caused by the presence of PCB's in the samples an elevated MDL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**May 21, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

May 21, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date Time  
 05/13/13 10:30  
 05/14/13 14:38

## Laboratory Data

SDG ID: GBD78164  
 Phoenix ID: BD78169

Project ID: 82 THROOP AVE., BROOKLYN  
 Client ID: SB3 8-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	05/15/13	LK	SW6010
Aluminum	10500	56	mg/Kg	05/15/13	LK	SW6010
Arsenic	2.4	0.7	mg/Kg	05/15/13	LK	SW6010
Barium	36.6	0.37	mg/Kg	05/15/13	LK	SW6010
Beryllium	0.38	0.30	mg/Kg	05/15/13	LK	SW6010
Calcium	899	5.6	mg/Kg	05/15/13	LK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	05/15/13	LK	SW6010
Cobalt	4.67	0.37	mg/Kg	05/15/13	LK	SW6010
Chromium	15.1	0.37	mg/Kg	05/15/13	LK	SW6010
Copper	13.2	0.37	mg/kg	05/15/13	LK	SW6010
Iron	12700	56	mg/Kg	05/15/13	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	05/15/13	RS	SW-7471
Potassium	874	5.6	mg/Kg	05/15/13	LK	SW6010
Magnesium	2080	5.6	mg/Kg	05/15/13	LK	SW6010
Manganese	244	3.7	mg/Kg	05/15/13	LK	SW6010
Sodium	55.6	5.6	mg/Kg	05/15/13	LK	SW6010
Nickel	10.8	0.37	mg/Kg	05/15/13	LK	SW6010
Lead	5.60	0.37	mg/Kg	05/15/13	LK	SW6010
Antimony	< 3.7	3.7	mg/Kg	05/15/13	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	05/15/13	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	05/15/13	LK	SW6010
Vanadium	26.1	0.37	mg/Kg	05/15/13	LK	SW6010
Zinc	27.8	0.37	mg/Kg	05/15/13	LK	SW6010
Percent Solid	86		%	05/15/13	JL	E160.3
Soil Extraction for PCB	Completed			05/14/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed			05/14/13	BB	SW3545
Soil Extraction for SVOA	Completed			05/14/13	BJ/V	SW3545
Mercury Digestion	Completed			05/15/13	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			05/14/13	Z/AG	SW846 - 3050
Field Extraction	Completed			05/13/13		SW5035

### Polychlorinated Biphenyls

PCB-1016	ND	77	ug/Kg	05/15/13	AW	SW 8082
PCB-1221	ND	77	ug/Kg	05/15/13	AW	SW 8082
PCB-1232	ND	77	ug/Kg	05/15/13	AW	SW 8082
PCB-1242	ND	77	ug/Kg	05/15/13	AW	SW 8082
PCB-1248	ND	77	ug/Kg	05/15/13	AW	SW 8082
PCB-1254	ND	77	ug/Kg	05/15/13	AW	SW 8082
PCB-1260	ND	77	ug/Kg	05/15/13	AW	SW 8082
PCB-1262	ND	77	ug/Kg	05/15/13	AW	SW 8082
PCB-1268	ND	77	ug/Kg	05/15/13	AW	SW 8082

### QA/QC Surrogates

% DCBP	65		%	05/15/13	AW	30 - 150 %
% TCMX	66		%	05/15/13	AW	30 - 150 %

### Pesticides

4,4' -DDD	ND	2.3	ug/Kg	05/16/13	MH	SW8081
4,4' -DDE	ND	2.3	ug/Kg	05/16/13	MH	SW8081
4,4' -DDT	ND	2.3	ug/Kg	05/16/13	MH	SW8081
a-BHC	ND	3.7	ug/Kg	05/16/13	MH	SW8081
Alachlor	ND	3.7	ug/Kg	05/16/13	MH	SW8081
Aldrin	ND	1.2	ug/Kg	05/16/13	MH	SW8081
b-BHC	ND	3.7	ug/Kg	05/16/13	MH	SW8081
Chlordane	ND	12	ug/Kg	05/16/13	MH	SW8081
d-BHC	ND	3.7	ug/Kg	05/16/13	MH	SW8081
Dieldrin	ND	1.2	ug/Kg	05/16/13	MH	SW8081
Endosulfan I	ND	3.7	ug/Kg	05/16/13	MH	SW8081
Endosulfan II	ND	7.4	ug/Kg	05/16/13	MH	SW8081
Endosulfan sulfate	ND	7.4	ug/Kg	05/16/13	MH	SW8081
Endrin	ND	7.4	ug/Kg	05/16/13	MH	SW8081
Endrin aldehyde	ND	7.4	ug/Kg	05/16/13	MH	SW8081
Endrin ketone	ND	7.4	ug/Kg	05/16/13	MH	SW8081
g-BHC	ND	1.2	ug/Kg	05/16/13	MH	SW8081
Heptachlor	ND	2.3	ug/Kg	05/16/13	MH	SW8081
Heptachlor epoxide	ND	3.7	ug/Kg	05/16/13	MH	SW8081
Methoxychlor	ND	37	ug/Kg	05/16/13	MH	SW8081
Toxaphene	ND	37	ug/Kg	05/16/13	MH	SW8081

### QA/QC Surrogates

% DCBP	72		%	05/16/13	MH	30 - 150 %
% TCMX	62		%	05/16/13	MH	30 - 150 %

### Volatiles

1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,1-Dichloropropene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	32	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
4-Chlorotoluene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	05/15/13	R/J	SW8260
Acetone	ND	32	ug/Kg	05/15/13	R/J	SW8260
Acrylonitrile	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Benzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Bromobenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Bromochloromethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Bromodichloromethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Bromoform	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Bromomethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Carbon Disulfide	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Carbon tetrachloride	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Chlorobenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Chloroethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Chloroform	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Chloromethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Dibromochloromethane	ND	3.8	ug/Kg	05/15/13	R/J	SW8260
Dibromomethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Ethylbenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Hexachlorobutadiene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Isopropylbenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
m&p-Xylene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Methyl Ethyl Ketone	ND	38	ug/Kg	05/15/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	05/15/13	R/J	SW8260
Methylene chloride	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Naphthalene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
n-Butylbenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
n-Propylbenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
o-Xylene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260

1

1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
p-Isopropyltoluene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
sec-Butylbenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Styrene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
tert-Butylbenzene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Tetrachloroethene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	05/15/13	R/J	SW8260
Toluene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Total Xylenes	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	05/15/13	R/J	SW8260
Trichloroethene	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Trichlorofluoromethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
Vinyl chloride	ND	6.3	ug/Kg	05/15/13	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	100		%	05/15/13	R/J	70 - 130 %
% Bromofluorobenzene	96		%	05/15/13	R/J	70 - 130 %
% Dibromofluoromethane	101		%	05/15/13	R/J	70 - 130 %
% Toluene-d8	102		%	05/15/13	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	05/15/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	05/15/13	DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	05/15/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	380	ug/Kg	05/15/13	DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	05/15/13	DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	05/15/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	05/15/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	05/15/13	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	05/15/13	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	05/15/13	DD	SW 8270
2,4-Dinitrophenol	ND	610	ug/Kg	05/15/13	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	05/15/13	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	05/15/13	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	05/15/13	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	05/15/13	DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	05/15/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	05/15/13	DD	SW 8270
2-Nitroaniline	ND	610	ug/Kg	05/15/13	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	05/15/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	05/15/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	270	ug/Kg	05/15/13	DD	SW 8270
3-Nitroaniline	ND	610	ug/Kg	05/15/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	05/15/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	380	ug/Kg	05/15/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	05/15/13	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	05/15/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	05/15/13	DD	SW 8270
4-Nitroaniline	ND	610	ug/Kg	05/15/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	05/15/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Acetophenone	ND	270	ug/Kg	05/15/13	DD	SW 8270
Aniline	ND	1100	ug/Kg	05/15/13	DD	SW 8270
Anthracene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Benzidine	ND	460	ug/Kg	05/15/13	DD	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	05/15/13	DD	SW 8270 10
Benzyl butyl phthalate	ND	270	ug/Kg	05/15/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	05/15/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	380	ug/Kg	05/15/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	05/15/13	DD	SW 8270 1
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	05/15/13	DD	SW 8270
Carbazole	ND	580	ug/Kg	05/15/13	DD	SW 8270
Chrysene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Dibenzofuran	ND	270	ug/Kg	05/15/13	DD	SW 8270
Diethyl phthalate	ND	270	ug/Kg	05/15/13	DD	SW 8270
Dimethylphthalate	ND	270	ug/Kg	05/15/13	DD	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	05/15/13	DD	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	05/15/13	DD	SW 8270
Fluoranthene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Hexachlorobenzene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Hexachloroethane	ND	270	ug/Kg	05/15/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Isophorone	ND	270	ug/Kg	05/15/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Nitrobenzene	ND	270	ug/Kg	05/15/13	DD	SW 8270
N-Nitrosodimethylamine	ND	380	ug/Kg	05/15/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	05/15/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	380	ug/Kg	05/15/13	DD	SW 8270
Pentachloronitrobenzene	ND	380	ug/Kg	05/15/13	DD	SW 8270
Pentachlorophenol	ND	380	ug/Kg	05/15/13	DD	SW 8270
Phenanthrene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Phenol	ND	270	ug/Kg	05/15/13	DD	SW 8270
Pyrene	ND	270	ug/Kg	05/15/13	DD	SW 8270
Pyridine	ND	380	ug/Kg	05/15/13	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	96		%	05/15/13	DD	30 - 130 %
% 2-Fluorobiphenyl	82		%	05/15/13	DD	30 - 130 %
% 2-Fluorophenol	92		%	05/15/13	DD	30 - 130 %
% Nitrobenzene-d5	85		%	05/15/13	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	79		%	05/15/13	DD	30 - 130 %
% Terphenyl-d14	95		%	05/15/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level

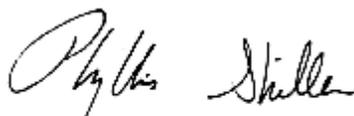
**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**May 21, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 21, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date Time  
 05/13/13 0:00  
 05/14/13 14:38

## Laboratory Data

SDG ID: GBD78164  
 Phoenix ID: BD78170

Project ID: 82 THROOP AVE., BROOKLYN  
 Client ID: DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	05/15/13	LK	SW6010
Aluminum	6580	58	mg/Kg	05/15/13	LK	SW6010
Arsenic	4.3	0.8	mg/Kg	05/15/13	LK	SW6010
Barium	278	0.39	mg/Kg	05/15/13	LK	SW6010
Beryllium	0.32	0.31	mg/Kg	05/15/13	LK	SW6010
Calcium	18300	58	mg/Kg	05/15/13	LK	SW6010
Cadmium	0.83	0.39	mg/Kg	05/15/13	LK	SW6010
Cobalt	5.00	0.39	mg/Kg	05/15/13	LK	SW6010
Chromium	17.6	0.39	mg/Kg	05/15/13	LK	SW6010
Copper	53.8	0.39	mg/kg	05/15/13	LK	SW6010
Iron	13000	58	mg/Kg	05/15/13	LK	SW6010
Mercury	1.27	0.07	mg/Kg	05/15/13	RS	SW-7471
Potassium	904	5.8	mg/Kg	05/15/13	LK	SW6010
Magnesium	2760	5.8	mg/Kg	05/15/13	LK	SW6010
Manganese	218	3.9	mg/Kg	05/15/13	LK	SW6010
Sodium	240	5.8	mg/Kg	05/15/13	LK	SW6010
Nickel	15.4	0.39	mg/Kg	05/15/13	LK	SW6010
Lead	330	3.9	mg/Kg	05/15/13	LK	SW6010
Antimony	< 3.9	3.9	mg/Kg	05/15/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	05/15/13	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	05/15/13	LK	SW6010
Vanadium	22.0	0.39	mg/Kg	05/15/13	LK	SW6010
Zinc	253	3.9	mg/Kg	05/15/13	LK	SW6010
Percent Solid	87		%	05/15/13	JL	E160.3
Soil Extraction for PCB	Completed			05/14/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed			05/14/13	BB	SW3545
Soil Extraction for SVOA	Completed			05/14/13	BJ/V	SW3545
Mercury Digestion	Completed			05/15/13	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			05/14/13	Z/AG	SW846 - 3050
Field Extraction	Completed			05/13/13		SW5035

### Polychlorinated Biphenyls

PCB-1016	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1221	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1232	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1242	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1248	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1254	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1260	84	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1262	ND	74	ug/Kg	05/15/13	AW	SW 8082
PCB-1268	ND	74	ug/Kg	05/15/13	AW	SW 8082

### QA/QC Surrogates

% DCBP	90		%	05/15/13	AW	30 - 150 %
% TCMX	65		%	05/15/13	AW	30 - 150 %

### Pesticides

4,4' -DDD	ND*	11	ug/Kg	05/16/13	MH	SW8081
4,4' -DDE	ND*	26	ug/Kg	05/16/13	MH	SW8081
4,4' -DDT	ND*	48	ug/Kg	05/16/13	MH	SW8081
a-BHC	ND*	18	ug/Kg	05/16/13	MH	SW8081
Alachlor	ND*	18	ug/Kg	05/16/13	MH	SW8081
Aldrin	ND*	5.6	ug/Kg	05/16/13	MH	SW8081
b-BHC	ND*	18	ug/Kg	05/16/13	MH	SW8081
Chlordane	ND*	240	ug/Kg	05/16/13	MH	SW8081
d-BHC	ND*	18	ug/Kg	05/16/13	MH	SW8081
Dieldrin	ND*	5.6	ug/Kg	05/16/13	MH	SW8081
Endosulfan I	ND*	18	ug/Kg	05/16/13	MH	SW8081
Endosulfan II	ND*	36	ug/Kg	05/16/13	MH	SW8081
Endosulfan sulfate	ND*	36	ug/Kg	05/16/13	MH	SW8081
Endrin	ND*	36	ug/Kg	05/16/13	MH	SW8081
Endrin aldehyde	ND*	36	ug/Kg	05/16/13	MH	SW8081
Endrin ketone	ND*	36	ug/Kg	05/16/13	MH	SW8081
g-BHC	ND*	5.6	ug/Kg	05/16/13	MH	SW8081
Heptachlor	ND*	11	ug/Kg	05/16/13	MH	SW8081
Heptachlor epoxide	ND*	18	ug/Kg	05/16/13	MH	SW8081
Methoxychlor	ND*	180	ug/Kg	05/16/13	MH	SW8081
Toxaphene	ND*	180	ug/Kg	05/16/13	MH	SW8081

### QA/QC Surrogates

% DCBP	97		%	05/16/13	MH	30 - 150 %
% TCMX	90		%	05/16/13	MH	30 - 150 %

### Volatiles

1,1,1,2-Tetrachloroethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,1-Dichloropropene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	47	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
4-Chlorotoluene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
4-Methyl-2-pentanone	ND	47	ug/Kg	05/15/13	R/J	SW8260
Acetone	ND	47	ug/Kg	05/15/13	R/J	SW8260
Acrylonitrile	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Benzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Bromobenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Bromochloromethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Bromodichloromethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Bromoform	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Bromomethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Carbon Disulfide	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Carbon tetrachloride	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Chlorobenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Chloroethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Chloroform	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Chloromethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Dibromochloromethane	ND	5.7	ug/Kg	05/15/13	R/J	SW8260
Dibromomethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Dichlorodifluoromethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Ethylbenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Hexachlorobutadiene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Isopropylbenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
m&p-Xylene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Methyl Ethyl Ketone	ND	57	ug/Kg	05/15/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	19	ug/Kg	05/15/13	R/J	SW8260
Methylene chloride	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Naphthalene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
n-Butylbenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
n-Propylbenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
o-Xylene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260

1

1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
p-Isopropyltoluene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
sec-Butylbenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Styrene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
tert-Butylbenzene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Tetrachloroethene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	19	ug/Kg	05/15/13	R/J	SW8260
Toluene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Total Xylenes	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	19	ug/Kg	05/15/13	R/J	SW8260
Trichloroethene	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Trichlorofluoromethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Trichlorotrifluoroethane	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
Vinyl chloride	ND	9.4	ug/Kg	05/15/13	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	101		%	05/15/13	R/J	70 - 130 %
% Bromofluorobenzene	98		%	05/15/13	R/J	70 - 130 %
% Dibromofluoromethane	108		%	05/15/13	R/J	70 - 130 %
% Toluene-d8	103		%	05/15/13	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	380	ug/Kg	05/15/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,4-Dinitrophenol	ND	600	ug/Kg	05/15/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	05/15/13	DD	SW 8270
2-Nitroaniline	ND	600	ug/Kg	05/15/13	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	05/15/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	05/15/13	DD	SW 8270
3-Nitroaniline	ND	600	ug/Kg	05/15/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	05/15/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	380	ug/Kg	05/15/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	05/15/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/15/13	DD	SW 8270
4-Nitroaniline	ND	600	ug/Kg	05/15/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	05/15/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Acenaphthylene	300	260	ug/Kg	05/15/13	DD	SW 8270
Acetophenone	ND	260	ug/Kg	05/15/13	DD	SW 8270
Aniline	ND	1100	ug/Kg	05/15/13	DD	SW 8270
Anthracene	600	260	ug/Kg	05/15/13	DD	SW 8270
Benz(a)anthracene	2200	260	ug/Kg	05/15/13	DD	SW 8270
Benzidine	ND	450	ug/Kg	05/15/13	DD	SW 8270
Benzo(a)pyrene	2000	260	ug/Kg	05/15/13	DD	SW 8270
Benzo(b)fluoranthene	2700	260	ug/Kg	05/15/13	DD	SW 8270
Benzo(ghi)perylene	760	260	ug/Kg	05/15/13	DD	SW 8270
Benzo(k)fluoranthene	1100	260	ug/Kg	05/15/13	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	05/15/13	DD	SW 8270
Benzyl butyl phthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/15/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	380	ug/Kg	05/15/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/15/13	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Carbazole	ND	570	ug/Kg	05/15/13	DD	SW 8270
Chrysene	2100	260	ug/Kg	05/15/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	05/15/13	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	05/15/13	DD	SW 8270
Fluoranthene	4000	260	ug/Kg	05/15/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	05/15/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	700	260	ug/Kg	05/15/13	DD	SW 8270
Isophorone	ND	260	ug/Kg	05/15/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	05/15/13	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	05/15/13	DD	SW 8270
N-Nitrosodimethylamine	ND	380	ug/Kg	05/15/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/15/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	380	ug/Kg	05/15/13	DD	SW 8270
Pentachloronitrobenzene	ND	380	ug/Kg	05/15/13	DD	SW 8270
Pentachlorophenol	ND	380	ug/Kg	05/15/13	DD	SW 8270
Phenanthrene	2500	260	ug/Kg	05/15/13	DD	SW 8270
Phenol	ND	260	ug/Kg	05/15/13	DD	SW 8270
Pyrene	3700	260	ug/Kg	05/15/13	DD	SW 8270
Pyridine	ND	380	ug/Kg	05/15/13	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	89		%	05/15/13	DD	30 - 130 %
% 2-Fluorobiphenyl	95		%	05/15/13	DD	30 - 130 %
% 2-Fluorophenol	101		%	05/15/13	DD	30 - 130 %
% Nitrobenzene-d5	89		%	05/15/13	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Phenol-d5	87		%	05/15/13	DD	30 - 130 %
% Terphenyl-d14	96		%	05/15/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
10 = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

**Comments:**

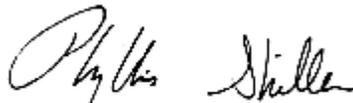
DUPLICATE INCLUDED

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

\* For Pesticides, due to matrix interference caused by the presence of PCB's in the samples an elevated MDL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**May 21, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

May 21, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date: 05/13/13  
 05/14/13  
 Time: 0:00  
 14:38

## Laboratory Data

SDG ID: GBD78164  
 Phoenix ID: BD78200

Project ID: 82 THROOP AVE BROOKLYN NY  
 Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	05/13/13		E160.3
Field Extraction	Completed			05/13/13		SW5035

## Volatiles

1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	250	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	1300	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	05/15/13	R/J	SW8260
4-Chlorotoluene	ND	250	ug/Kg	05/15/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	05/15/13	R/J	SW8260
Acetone	ND	5000	ug/Kg	05/15/13	R/J	SW8260
Acrylonitrile	ND	500	ug/Kg	05/15/13	R/J	SW8260
Benzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
Bromobenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
Bromochloromethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
Bromodichloromethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
Bromoform	ND	250	ug/Kg	05/15/13	R/J	SW8260
Bromomethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
Carbon Disulfide	ND	250	ug/Kg	05/15/13	R/J	SW8260
Carbon tetrachloride	ND	250	ug/Kg	05/15/13	R/J	SW8260
Chlorobenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
Chloroethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
Chloroform	ND	250	ug/Kg	05/15/13	R/J	SW8260
Chloromethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	05/15/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	05/15/13	R/J	SW8260
Dibromochloromethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
Dibromomethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
Ethylbenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	05/15/13	R/J	SW8260
Isopropylbenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
m&p-Xylene	ND	250	ug/Kg	05/15/13	R/J	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	05/15/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	05/15/13	R/J	SW8260
Methylene chloride	ND	500	ug/Kg	05/15/13	R/J	SW8260
Naphthalene	ND	250	ug/Kg	05/15/13	R/J	SW8260
n-Butylbenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
n-Propylbenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
o-Xylene	ND	250	ug/Kg	05/15/13	R/J	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	05/15/13	R/J	SW8260
sec-Butylbenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
Styrene	ND	250	ug/Kg	05/15/13	R/J	SW8260
tert-Butylbenzene	ND	250	ug/Kg	05/15/13	R/J	SW8260
Tetrachloroethene	ND	250	ug/Kg	05/15/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	05/15/13	R/J	SW8260
Toluene	ND	250	ug/Kg	05/15/13	R/J	SW8260
Total Xylenes	ND	250	ug/Kg	05/15/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	05/15/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	05/15/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	05/15/13	R/J	SW8260
Trichloroethene	ND	250	ug/Kg	05/15/13	R/J	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	05/15/13	R/J	SW8260
Vinyl chloride	ND	250	ug/Kg	05/15/13	R/J	SW8260
<b>QA/QC Surrogates</b>						
% 1,2-dichlorobenzene-d4	100		%	05/15/13	R/J	70 - 130 %
% Bromofluorobenzene	94		%	05/15/13	R/J	70 - 130 %
% Dibromofluoromethane	102		%	05/15/13	R/J	70 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	101		%	05/15/13	R/J	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

**Comments:**

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**May 21, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



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# Analysis Report

May 21, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date: 05/13/13  
 05/14/13  
 Time: 0:00  
 14:38

## Laboratory Data

SDG ID: GBD78164  
 Phoenix ID: BD78201

Project ID: 82 THROOP AVE BROOKLYN NY  
 Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	05/13/13		E160.3
Field Extraction	Completed			05/13/13		SW5035

## Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	25	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	05/15/13	R/J	SW8260
Acetone	ND	50	ug/Kg	05/15/13	R/J	SW8260
Acrylonitrile	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Benzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Bromobenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Bromochloromethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Bromoform	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Bromomethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Chlorobenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Chloroethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Chloroform	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Chloromethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	05/15/13	R/J	SW8260
Dibromomethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Ethylbenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
m&p-Xylene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	05/15/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	05/15/13	R/J	SW8260
Methylene chloride	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Naphthalene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
o-Xylene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Styrene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	05/15/13	R/J	SW8260
Toluene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Total Xylenes	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	05/15/13	R/J	SW8260
Trichloroethene	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
Vinyl chloride	ND	5.0	ug/Kg	05/15/13	R/J	SW8260
<b>QA/QC Surrogates</b>						
% 1,2-dichlorobenzene-d4	100		%	05/15/13	R/J	70 - 130 %
% Bromofluorobenzene	95		%	05/15/13	R/J	70 - 130 %
% Dibromofluoromethane	109		%	05/15/13	R/J	70 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	101		%	05/15/13	R/J	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

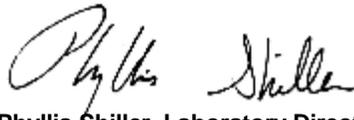
**Comments:**

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**May 21, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



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# QA/QC Report

May 21, 2013

## QA/QC Data

SDG I.D.: GBD78164

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 230447, QC Sample No: BD71513 (BD78164, BD78165, BD78166, BD78167, BD78168, BD78169, BD78170)													
<u>ICP Metals - Soil</u>													
Aluminum	BRL	3420	4780	33.2	97.8	102	4.2	NC	NC	NC	75 - 125	30	r
Antimony	BRL	<3.4	<3.3	NC	103	110	6.6	94.9	95.7	0.8	75 - 125	30	
Arsenic	BRL	1.4	2.10	NC	100	105	4.9	92.5	93.4	1.0	75 - 125	30	
Barium	BRL	4.89	7.94	47.5	105	112	6.5	107	106	0.9	75 - 125	30	r
Beryllium	BRL	<0.27	<0.26	NC	105	110	4.7	103	104	1.0	75 - 125	30	
Cadmium	BRL	<0.34	<0.33	NC	108	112	3.6	100	101	1.0	75 - 125	30	
Calcium	BRL	605	1140	61.3	102	106	3.8	>130	>130	NC	75 - 125	30	m,r
Chromium	BRL	8.67	12.7	37.7	109	116	6.2	105	106	0.9	75 - 125	30	r
Cobalt	BRL	0.58	2.30	NC	108	114	5.4	103	104	1.0	75 - 125	30	
Copper	BRL	7.79	8.51	8.80	115	120	4.3	115	114	0.9	75 - 125	30	
Iron	BRL	7410	10500	34.5	103	113	9.3	NC	NC	NC	75 - 125	30	r
Lead	BRL	3.57	4.47	22.4	103	106	2.9	101	102	1.0	75 - 125	30	
Magnesium	BRL	419	1480	112	104	108	3.8	>130	>130	NC	75 - 125	30	m,r
Manganese	BRL	19.9	146	152	107	111	3.7	120	118	1.7	75 - 125	30	r
Nickel	BRL	1.58	5.27	NC	110	115	4.4	103	103	0.0	75 - 125	30	
Potassium	BRL	208	644	102	94.5	94.6	0.1	122	>130	NC	75 - 125	30	m,r
Selenium	BRL	<1.3	<1.3	NC	90.3	94.1	4.1	84.6	85.3	0.8	75 - 125	30	
Silver	BRL	<0.34	<0.33	NC	105	107	1.9	104	104	0.0	75 - 125	30	
Sodium	BRL	82.7	156	61.4	116	119	2.6	>130	>130	NC	75 - 125	30	m,r
Thallium	BRL	<3.0	<2.9	NC	103	107	3.8	101	101	0.0	75 - 125	30	
Vanadium	BRL	10.5	14.6	32.7	109	115	5.4	107	110	2.8	75 - 125	30	r
Zinc	BRL	4.61	11.0	81.9	103	109	5.7	101	102	1.0	75 - 125	30	r

QA/QC Batch 230493, QC Sample No: BD78621 (BD78164, BD78165, BD78166, BD78167, BD78168, BD78169, BD78170)

Mercury - Soil BRL <0.09 <0.07 NC 110 99.4 10.1 115 107 7.2 70 - 130 30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

m = This parameter is outside laboratory ms/msd specified recovery limits.

r = This parameter is outside laboratory rpd specified recovery limits.



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# QA/QC Report

May 21, 2013

## QA/QC Data

SDG I.D.: GBD78164

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 230700, QC Sample No: BD69496 (BD78166, BD78167, BD78168, BD78169, BD78170, BD78200 (50X), BD78201)									
<b>Volatiles - Soil</b>									
1,1,1,2-Tetrachloroethane	ND	99	94	5.2				70 - 130	30
1,1,1-Trichloroethane	ND	97	95	2.1				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	101	95	6.1				70 - 130	30
1,1,2-Trichloroethane	ND	107	101	5.8				70 - 130	30
1,1-Dichloroethane	ND	101	98	3.0				70 - 130	30
1,1-Dichloroethene	ND	109	104	4.7				70 - 130	30
1,1-Dichloropropene	ND	107	101	5.8				70 - 130	30
1,2,3-Trichlorobenzene	ND	96	93	3.2				70 - 130	30
1,2,3-Trichloropropane	ND	98	89	9.6				70 - 130	30
1,2,4-Trichlorobenzene	ND	101	98	3.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	108	102	5.7				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	100	90	10.5				70 - 130	30
1,2-Dibromoethane	ND	103	100	3.0				70 - 130	30
1,2-Dichlorobenzene	ND	101	95	6.1				70 - 130	30
1,2-Dichloroethane	ND	92	85	7.9				70 - 130	30
1,2-Dichloropropane	ND	104	99	4.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	105	100	4.9				70 - 130	30
1,3-Dichlorobenzene	ND	105	100	4.9				70 - 130	30
1,3-Dichloropropane	ND	98	92	6.3				70 - 130	30
1,4-Dichlorobenzene	ND	104	99	4.9				70 - 130	30
2,2-Dichloropropane	ND	98	118	18.5				70 - 130	30
2-Chlorotoluene	ND	106	100	5.8				70 - 130	30
2-Hexanone	ND	87	78	10.9				70 - 130	30
2-Isopropyltoluene	ND	103	98	5.0				70 - 130	30
4-Chlorotoluene	ND	104	98	5.9				70 - 130	30
4-Methyl-2-pentanone	ND	106	95	10.9				70 - 130	30
Acetone	ND	102	81	23.0				70 - 130	30
Acrylonitrile	ND	104	92	12.2				70 - 130	30
Benzene	ND	106	100	5.8				70 - 130	30
Bromobenzene	ND	103	96	7.0				70 - 130	30
Bromochloromethane	ND	108	105	2.8				70 - 130	30
Bromodichloromethane	ND	98	93	5.2				70 - 130	30
Bromoform	ND	105	97	7.9				70 - 130	30
Bromomethane	ND	96	111	14.5				70 - 130	30
Carbon Disulfide	ND	107	103	3.8				70 - 130	30
Carbon tetrachloride	ND	94	95	1.1				70 - 130	30
Chlorobenzene	ND	103	97	6.0				70 - 130	30
Chloroethane	ND	97	96	1.0				70 - 130	30
Chloroform	ND	102	96	6.1				70 - 130	30
Chloromethane	ND	96	99	3.1				70 - 130	30
cis-1,2-Dichloroethene	ND	113	135	17.7				70 - 130	30

QA/QC Data

SDG I.D.: GBD78164

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	106	103	2.9				70 - 130	30
Dibromochloromethane	ND	98	94	4.2				70 - 130	30
Dibromomethane	ND	102	95	7.1				70 - 130	30
Dichlorodifluoromethane	ND	107	99	7.8				70 - 130	30
Ethylbenzene	ND	103	98	5.0				70 - 130	30
Hexachlorobutadiene	ND	94	91	3.2				70 - 130	30
Isopropylbenzene	ND	110	104	5.6				70 - 130	30
m&p-Xylene	ND	107	101	5.8				70 - 130	30
Methyl ethyl ketone	ND	82	73	11.6				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	102	100	2.0				70 - 130	30
Methylene chloride	ND	99	94	5.2				70 - 130	30
Naphthalene	ND	100	93	7.3				70 - 130	30
n-Butylbenzene	ND	105	101	3.9				70 - 130	30
n-Propylbenzene	ND	110	105	4.7				70 - 130	30
o-Xylene	ND	116	106	9.0				70 - 130	30
p-Isopropyltoluene	ND	109	104	4.7				70 - 130	30
sec-Butylbenzene	ND	103	98	5.0				70 - 130	30
Styrene	ND	111	103	7.5				70 - 130	30
tert-Butylbenzene	ND	104	99	4.9				70 - 130	30
Tetrachloroethene	ND	106	100	5.8				70 - 130	30
Tetrahydrofuran (THF)	ND	105	93	12.1				70 - 130	30
Toluene	ND	107	102	4.8				70 - 130	30
trans-1,2-Dichloroethene	ND	109	106	2.8				70 - 130	30
trans-1,3-Dichloropropene	ND	100	101	1.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	106	104	1.9				70 - 130	30
Trichloroethene	ND	110	103	6.6				70 - 130	30
Trichlorofluoromethane	ND	95	92	3.2				70 - 130	30
Trichlorotrifluoroethane	ND	106	101	4.8				70 - 130	30
Vinyl chloride	ND	104	101	2.9				70 - 130	30
% 1,2-dichlorobenzene-d4	101	99	99	0.0				70 - 130	30
% Bromofluorobenzene	96	99	98	1.0				70 - 130	30
% Dibromofluoromethane	108	97	104	7.0				70 - 130	30
% Toluene-d8	102	101	101	0.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 230792, QC Sample No: BD70277 (BD78165 (42X) )

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	105	103	1.9	95	127	28.8	70 - 130	30	
1,1,1-Trichloroethane	ND	87	85	2.3	85	109	24.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	94	91	3.2	121	>150	NC	70 - 130	30	m
1,1,2-Trichloroethane	ND	93	96	3.2	83	96	14.5	70 - 130	30	
1,1-Dichloroethane	ND	88	87	1.1	87	110	23.4	70 - 130	30	
1,1-Dichloroethene	ND	84	80	4.9	75	98	26.6	70 - 130	30	
1,1-Dichloropropene	ND	96	94	2.1	84	110	26.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	110	118	7.0	<40	41	NC	70 - 130	30	m
1,2,3-Trichloropropane	ND	95	90	5.4	124	>150	NC	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	114	121	6.0	<40	51	NC	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	96	94	2.1	62	106	52.4	70 - 130	30	m,r
1,2-Dibromo-3-chloropropane	ND	116	119	2.6	131	>150	NC	70 - 130	30	m
1,2-Dibromoethane	ND	94	97	3.1	79	90	13.0	70 - 130	30	
1,2-Dichlorobenzene	ND	98	96	2.1	66	95	36.0	70 - 130	30	m,r

## QA/QC Data

SDG I.D.: GBD78164

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichloroethane	ND	93	96	3.2	88	104	16.7	70 - 130	30	
1,2-Dichloropropane	ND	92	92	0.0	88	108	20.4	70 - 130	30	
1,3,5-Trimethylbenzene	ND	94	90	4.3	71	117	48.9	70 - 130	30	r
1,3-Dichlorobenzene	ND	104	100	3.9	69	106	42.3	70 - 130	30	m,r
1,3-Dichloropropane	ND	94	93	1.1	94	117	21.8	70 - 130	30	
1,4-Dichlorobenzene	ND	100	98	2.0	65	100	42.4	70 - 130	30	m,r
2,2-Dichloropropane	ND	91	91	0.0	85	110	25.6	70 - 130	30	
2-Chlorotoluene	ND	105	100	4.9	91	143	44.4	70 - 130	30	m,r
2-Hexanone	ND	83	83	0.0	72	82	13.0	70 - 130	30	
2-Isopropyltoluene	ND	98	95	3.1	66	111	50.8	70 - 130	30	m,r
4-Chlorotoluene	ND	102	99	3.0	84	132	44.4	70 - 130	30	m,r
4-Methyl-2-pentanone	ND	94	95	1.1	74	80	7.8	70 - 130	30	
Acetone	ND	73	70	4.2	NC	NC	NC	70 - 130	30	
Acrylonitrile	ND	93	96	3.2	84	87	3.5	70 - 130	30	
Benzene	ND	86	85	1.2	79	100	23.5	70 - 130	30	
Bromobenzene	ND	106	102	3.8	104	147	34.3	70 - 130	30	m,r
Bromochloromethane	ND	99	99	0.0	93	111	17.6	70 - 130	30	
Bromodichloromethane	ND	90	89	1.1	79	98	21.5	70 - 130	30	
Bromoform	ND	109	108	0.9	89	108	19.3	70 - 130	30	
Bromomethane	ND	89	82	8.2	67	103	42.4	70 - 130	30	m,r
Carbon Disulfide	ND	78	73	6.6	57	79	32.4	70 - 130	30	m,r
Carbon tetrachloride	ND	101	101	0.0	91	117	25.0	70 - 130	30	
Chlorobenzene	ND	99	97	2.0	79	107	30.1	70 - 130	30	
Chloroethane	ND	84	79	6.1	79	106	29.2	70 - 130	30	
Chloroform	ND	82	83	1.2	80	100	22.2	70 - 130	30	
Chloromethane	ND	88	90	2.2	87	113	26.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	89	90	1.1	80	98	20.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	93	95	2.1	76	93	20.1	70 - 130	30	
Dibromochloromethane	ND	105	105	0.0	99	124	22.4	70 - 130	30	
Dibromomethane	ND	93	97	4.2	80	92	14.0	70 - 130	30	
Dichlorodifluoromethane	ND	89	89	0.0	95	124	26.5	70 - 130	30	
Ethylbenzene	ND	92	90	2.2	73	105	36.0	70 - 130	30	r
Hexachlorobutadiene	ND	105	111	5.6	<40	63	NC	70 - 130	30	m
Isopropylbenzene	ND	102	96	6.1	98	>150	NC	70 - 130	30	m
m&p-Xylene	ND	94	93	1.1	68	98	36.1	70 - 130	30	m,r
Methyl ethyl ketone	ND	68	72	5.7	75	77	2.6	70 - 130	30	l
Methyl t-butyl ether (MTBE)	ND	80	80	0.0	92	103	11.3	70 - 130	30	
Methylene chloride	ND	75	74	1.3	86	130	40.7	70 - 130	30	r
Naphthalene	ND	109	125	13.7	49	94	62.9	70 - 130	30	m,r
n-Butylbenzene	ND	93	94	1.1	43	87	67.7	70 - 130	30	m,r
n-Propylbenzene	ND	105	99	5.9	86	143	49.8	70 - 130	30	m,r
o-Xylene	ND	94	93	1.1	71	99	32.9	70 - 130	30	r
p-Isopropyltoluene	ND	106	102	3.8	64	117	58.6	70 - 130	30	m,r
sec-Butylbenzene	ND	90	87	3.4	62	108	54.1	70 - 130	30	m,r
Styrene	ND	89	89	0.0	65	90	32.3	70 - 130	30	m,r
tert-Butylbenzene	ND	101	95	6.1	78	130	50.0	70 - 130	30	r
Tetrachloroethene	ND	106	104	1.9	88	127	36.3	70 - 130	30	r
Tetrahydrofuran (THF)	ND	86	89	3.4	95	100	5.1	70 - 130	30	
Toluene	ND	88	88	0.0	73	94	25.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	81	80	1.2	67	87	26.0	70 - 130	30	m
trans-1,3-Dichloropropene	ND	92	94	2.2	70	81	14.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	100	99	1.0	95	114	18.2	70 - 130	30	
Trichloroethene	ND	102	99	3.0	86	112	26.3	70 - 130	30	

## QA/QC Data

SDG I.D.: GBD78164

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Trichlorofluoromethane	ND	90	86	4.5	84	112	28.6	70 - 130	30
Trichlorotrifluoroethane	ND	94	94	0.0	90	121	29.4	70 - 130	30
Vinyl chloride	ND	93	94	1.1	83	107	25.3	70 - 130	30
% 1,2-dichlorobenzene-d4	102	101	101	0.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	95	97	99	2.0	84	83	1.2	70 - 130	30
% Dibromofluoromethane	98	99	99	0.0	107	106	0.9	70 - 130	30
% Toluene-d8	95	94	94	0.0	89	88	1.1	70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 230305, QC Sample No: BD71486 (BD78164, BD78165, BD78166, BD78167, BD78168, BD78169, BD78170)

### Pesticides - Soil

4,4' -DDD	ND	86			74	75	1.3	40 - 140	30
4,4' -DDE	ND	86			75	76	1.3	40 - 140	30
4,4' -DDT	ND	84			72	72	0.0	40 - 140	30
a-BHC	ND	83			72	76	5.4	40 - 140	30
a-Chlordane	ND	83			72	76	5.4	40 - 140	30
Alachlor	ND	N/A			N/A	N/A	NC	40 - 140	30
Aldrin	ND	82			72	73	1.4	40 - 140	30
b-BHC	ND	84			72	75	4.1	40 - 140	30
Chlordane	ND	N/A			N/A	N/A	NC	40 - 140	30
d-BHC	ND	82			71	75	5.5	40 - 140	30
Dieldrin	ND	84			74	77	4.0	40 - 140	30
Endosulfan I	ND	83			72	77	6.7	40 - 140	30
Endosulfan II	ND	82			75	78	3.9	40 - 140	30
Endosulfan sulfate	ND	81			73	75	2.7	40 - 140	30
Endrin	ND	77			59	61	3.3	40 - 140	30
Endrin aldehyde	ND	89			80	86	7.2	40 - 140	30
Endrin ketone	ND	87			81	82	1.2	40 - 140	30
g-BHC	ND	82			72	75	4.1	40 - 140	30
g-Chlordane	ND	82			71	75	5.5	40 - 140	30
Heptachlor	ND	82			72	75	4.1	40 - 140	30
Heptachlor epoxide	ND	80			71	73	2.8	40 - 140	30
Methoxychlor	ND	82			69	68	1.5	40 - 140	30
Toxaphene	ND	N/A			N/A	N/A	NC	40 - 140	30
% DCBP	84	87			79	79	0.0	30 - 150	30
% TCMX	88	92			82	85	3.6	30 - 150	30

QA/QC Batch 230304, QC Sample No: BD71486 (BD78164, BD78165, BD78166, BD78167, BD78168, BD78169, BD78170)

### Polychlorinated Biphenyls - Soil

PCB-1016	ND	92	90	2.2	86	91	5.6	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	96	97	1.0	88	96	8.7	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	95	94	95	1.1	91	98	7.4	30 - 150	30
% TCMX (Surrogate Rec)	92	95	94	1.1	93	92	1.1	30 - 150	30

## QA/QC Data

SDG I.D.: GBD78164

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 230532, QC Sample No: BD78164 (BD78164)										
<u>Volatiles - Soil</u>										
1,1,1,2-Tetrachloroethane	ND	103	101	2.0	75	76	1.3	70 - 130	30	
1,1,1-Trichloroethane	ND	100	98	2.0	89	87	2.3	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	103	96	7.0	47	49	4.2	70 - 130	30	m
1,1,2-Trichloroethane	ND	105	102	2.9	79	80	1.3	70 - 130	30	
1,1-Dichloroethane	ND	105	103	1.9	91	91	0.0	70 - 130	30	
1,1-Dichloroethene	ND	109	106	2.8	97	91	6.4	70 - 130	30	
1,1-Dichloropropene	ND	105	104	1.0	85	80	6.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	91	99	8.4	<40	<40	NC	70 - 130	30	m
1,2,3-Trichloropropane	ND	93	88	5.5	70	72	2.8	70 - 130	30	
1,2,4-Trichlorobenzene	ND	95	105	10.0	<40	<40	NC	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	102	107	4.8	54	50	7.7	70 - 130	30	m
1,2-Dibromo-3-chloropropane	ND	102	93	9.2	58	63	8.3	70 - 130	30	m
1,2-Dibromoethane	ND	102	100	2.0	72	72	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	97	100	3.0	43	43	0.0	70 - 130	30	m
1,2-Dichloroethane	ND	93	91	2.2	80	78	2.5	70 - 130	30	
1,2-Dichloropropane	ND	102	102	0.0	86	86	0.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	100	104	3.9	57	52	9.2	70 - 130	30	m
1,3-Dichlorobenzene	ND	101	103	2.0	45	44	2.2	70 - 130	30	m
1,3-Dichloropropane	ND	101	98	3.0	74	77	4.0	70 - 130	30	
1,4-Dichlorobenzene	ND	99	102	3.0	43	41	4.8	70 - 130	30	m
2,2-Dichloropropane	ND	127	118	7.3	96	105	9.0	70 - 130	30	
2-Chlorotoluene	ND	102	104	1.9	56	54	3.6	70 - 130	30	m
2-Hexanone	ND	82	77	6.3	67	74	9.9	70 - 130	30	m
2-Isopropyltoluene	ND	99	103	4.0	51	46	10.3	70 - 130	30	m
4-Chlorotoluene	ND	98	102	4.0	54	51	5.7	70 - 130	30	m
4-Methyl-2-pentanone	ND	98	92	6.3	78	85	8.6	70 - 130	30	
Acetone	ND	88	78	12.0	86	85	1.2	70 - 130	30	
Acrylonitrile	ND	102	95	7.1	71	97	31.0	70 - 130	30	r
Benzene	ND	105	105	0.0	87	87	0.0	70 - 130	30	
Bromobenzene	ND	101	100	1.0	57	56	1.8	70 - 130	30	m
Bromochloromethane	ND	109	104	4.7	87	87	0.0	70 - 130	30	
Bromodichloromethane	ND	101	99	2.0	82	82	0.0	70 - 130	30	
Bromoform	ND	104	101	2.9	65	68	4.5	70 - 130	30	m
Bromomethane	ND	116	112	3.5	89	95	6.5	70 - 130	30	
Carbon Disulfide	ND	110	109	0.9	81	75	7.7	70 - 130	30	
Carbon tetrachloride	ND	99	100	1.0	83	83	0.0	70 - 130	30	
Chlorobenzene	ND	102	104	1.9	66	65	1.5	70 - 130	30	m
Chloroethane	ND	106	106	0.0	95	92	3.2	70 - 130	30	
Chloroform	ND	103	99	4.0	89	87	2.3	70 - 130	30	
Chloromethane	ND	105	100	4.9	92	97	5.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	137	126	8.4	109	107	1.9	70 - 130	30	l
cis-1,3-Dichloropropene	ND	107	106	0.9	74	77	4.0	70 - 130	30	
Dibromochloromethane	ND	104	102	1.9	72	75	4.1	70 - 130	30	
Dibromomethane	ND	100	97	3.0	76	74	2.7	70 - 130	30	
Dichlorodifluoromethane	ND	109	107	1.9	107	103	3.8	70 - 130	30	
Ethylbenzene	ND	102	103	1.0	70	68	2.9	70 - 130	30	m
Hexachlorobutadiene	ND	81	100	21.0	<40	<40	NC	70 - 130	30	m
Isopropylbenzene	ND	105	107	1.9	66	61	7.9	70 - 130	30	m
m&p-Xylene	ND	105	107	1.9	69	66	4.4	70 - 130	30	m
Methyl ethyl ketone	ND	78	68	13.7	75	79	5.2	70 - 130	30	l

QA/QC Data

SDG I.D.: GBD78164

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Methyl t-butyl ether (MTBE)	ND	110	106	3.7	98	106	7.8	70 - 130	30
Methylene chloride	ND	102	96	6.1	83	82	1.2	70 - 130	30
Naphthalene	ND	97	98	1.0	<40	<40	NC	70 - 130	30 m
n-Butylbenzene	ND	95	105	10.0	<40	<40	NC	70 - 130	30 m
n-Propylbenzene	ND	104	109	4.7	57	52	9.2	70 - 130	30 m
o-Xylene	ND	109	112	2.7	71	69	2.9	70 - 130	30 m
p-Isopropyltoluene	ND	101	108	6.7	49	42	15.4	70 - 130	30 m
sec-Butylbenzene	ND	98	102	4.0	49	42	15.4	70 - 130	30 m
Styrene	ND	106	107	0.9	63	71	11.9	70 - 130	30 m
tert-Butylbenzene	ND	102	104	1.9	56	50	11.3	70 - 130	30 m
Tetrachloroethene	ND	106	106	0.0	73	69	5.6	70 - 130	30 m
Tetrahydrofuran (THF)	ND	98	89	9.6	79	84	6.1	70 - 130	30
Toluene	ND	104	105	1.0	80	78	2.5	70 - 130	30
trans-1,2-Dichloroethene	ND	114	110	3.6	85	81	4.8	70 - 130	30
trans-1,3-Dichloropropene	ND	105	104	1.0	68	69	1.5	70 - 130	30 m
trans-1,4-dichloro-2-butene	ND	111	105	5.6	55	61	10.3	70 - 130	30 m
Trichloroethene	ND	105	104	1.0	94	94	0.0	70 - 130	30
Trichlorofluoromethane	ND	101	100	1.0	92	87	5.6	70 - 130	30
Trichlorotrifluoroethane	ND	105	105	0.0	91	86	5.6	70 - 130	30
Vinyl chloride	ND	110	105	4.7	96	94	2.1	70 - 130	30
% 1,2-dichlorobenzene-d4	102	99	99	0.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	96	98	99	1.0	98	98	0.0	70 - 130	30
% Dibromofluoromethane	97	105	99	5.9	100	103	3.0	70 - 130	30
% Toluene-d8	101	100	102	2.0	101	101	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 230428, QC Sample No: BD78169 (BD78164, BD78165, BD78166, BD78167, BD78168, BD78169, BD78170)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	82	81	1.2	69	69	0.0	30 - 130	30
1,2,4-Trichlorobenzene	ND	77	77	0.0	67	68	1.5	30 - 130	30
1,2-Dichlorobenzene	ND	75	75	0.0	64	65	1.6	30 - 130	30
1,2-Diphenylhydrazine	ND	85	84	1.2	83	80	3.7	30 - 130	30
1,3-Dichlorobenzene	ND	75	74	1.3	64	65	1.6	30 - 130	30
1,4-Dichlorobenzene	ND	75	75	0.0	65	66	1.5	30 - 130	30
2,4,5-Trichlorophenol	ND	92	91	1.1	92	89	3.3	30 - 130	30
2,4,6-Trichlorophenol	ND	89	88	1.1	77	76	1.3	30 - 130	30
2,4-Dichlorophenol	ND	83	83	0.0	74	73	1.4	30 - 130	30
2,4-Dimethylphenol	ND	49	47	4.2	44	40	9.5	30 - 130	30
2,4-Dinitrophenol	ND	9.0	8.0	11.8	11	7.3	40.4	30 - 130	30 l,m,r
2,4-Dinitrotoluene	ND	89	89	0.0	85	80	6.1	30 - 130	30
2,6-Dinitrotoluene	ND	90	90	0.0	83	83	0.0	30 - 130	30
2-Chloronaphthalene	ND	85	85	0.0	75	75	0.0	30 - 130	30
2-Chlorophenol	ND	79	78	1.3	69	69	0.0	30 - 130	30
2-Methylnaphthalene	ND	81	81	0.0	74	74	0.0	30 - 130	30
2-Methylphenol (o-cresol)	ND	81	80	1.2	72	71	1.4	30 - 130	30
2-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30 l,m
2-Nitrophenol	ND	75	74	1.3	66	66	0.0	30 - 130	30
3&4-Methylphenol (m&p-cresol)	ND	83	84	1.2	74	73	1.4	30 - 130	30
3,3'-Dichlorobenzidine	ND	>150	>150	NC	>150	>150	NC	30 - 130	30 l,m
3-Nitroaniline	ND	92	92	0.0	87	84	3.5	30 - 130	30
4,6-Dinitro-2-methylphenol	ND	51	49	4.0	44	36	20.0	30 - 130	30
4-Bromophenyl phenyl ether	ND	91	91	0.0	83	84	1.2	30 - 130	30

## QA/QC Data

SDG I.D.: GBD78164

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chloro-3-methylphenol	ND	92	90	2.2	86	82	4.8	30 - 130	30	
4-Chloroaniline	ND	76	82	7.6	60	65	8.0	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	87	88	1.1	81	80	1.2	30 - 130	30	
4-Nitroaniline	ND	92	92	0.0	87	84	3.5	30 - 130	30	
4-Nitrophenol	ND	83	83	0.0	88	NC	NC	30 - 130	30	
Acenaphthene	ND	86	86	0.0	79	78	1.3	30 - 130	30	
Acenaphthylene	ND	88	87	1.1	79	78	1.3	30 - 130	30	
Acetophenone	ND	80	81	1.2	72	72	0.0	30 - 130	30	
Aniline	ND	96	97	1.0	48	72	40.0	30 - 130	30	r
Anthracene	ND	91	92	1.1	86	86	0.0	30 - 130	30	
Benz(a)anthracene	ND	88	89	1.1	84	85	1.2	30 - 130	30	
Benzidine	ND	98	98	0.0	61	59	3.3	30 - 130	30	
Benzo(a)pyrene	ND	81	82	1.2	78	79	1.3	30 - 130	30	
Benzo(b)fluoranthene	ND	92	96	4.3	99	99	0.0	30 - 130	30	
Benzo(ghi)perylene	ND	94	95	1.1	47	50	6.2	30 - 130	30	
Benzo(k)fluoranthene	ND	87	89	2.3	97	99	2.0	30 - 130	30	
Benzyl butyl phthalate	ND	90	90	0.0	98	101	3.0	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	82	83	1.2	73	75	2.7	30 - 130	30	
Bis(2-chloroethyl)ether	ND	78	83	6.2	65	73	11.6	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	81	81	0.0	74	74	0.0	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	89	89	0.0	93	100	7.3	30 - 130	30	
Carbazole	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
Chrysene	ND	87	87	0.0	84	86	2.4	30 - 130	30	
Dibenz(a,h)anthracene	ND	94	96	2.1	57	59	3.4	30 - 130	30	
Dibenzofuran	ND	87	87	0.0	80	79	1.3	30 - 130	30	
Diethyl phthalate	ND	90	91	1.1	88	87	1.1	30 - 130	30	
Dimethylphthalate	ND	88	89	1.1	83	84	1.2	30 - 130	30	
Di-n-butylphthalate	ND	92	94	2.2	90	91	1.1	30 - 130	30	
Di-n-octylphthalate	ND	93	92	1.1	87	91	4.5	30 - 130	30	
Fluoranthene	ND	94	95	1.1	90	87	3.4	30 - 130	30	
Fluorene	ND	90	90	0.0	84	81	3.6	30 - 130	30	
Hexachlorobenzene	ND	88	87	1.1	83	86	3.6	30 - 130	30	
Hexachlorobutadiene	ND	77	77	0.0	67	68	1.5	30 - 130	30	
Hexachlorocyclopentadiene	ND	85	80	6.1	29	26	10.9	30 - 130	30	m
Hexachloroethane	ND	73	74	1.4	59	59	0.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	96	81	16.9	54	56	3.6	30 - 130	30	
Isophorone	ND	85	86	1.2	76	77	1.3	30 - 130	30	
Naphthalene	ND	81	81	0.0	72	72	0.0	30 - 130	30	
Nitrobenzene	ND	78	80	2.5	71	71	0.0	30 - 130	30	
N-Nitrosodimethylamine	ND	99	93	6.3	73	71	2.8	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	81	81	0.0	71	71	0.0	30 - 130	30	
N-Nitrosodiphenylamine	ND	99	100	1.0	96	92	4.3	30 - 130	30	
Pentachloronitrobenzene	ND	75	103	31.5	90	95	5.4	30 - 130	30	r
Pentachlorophenol	ND	84	82	2.4	68	57	17.6	30 - 130	30	
Phenanthrene	ND	93	93	0.0	89	88	1.1	30 - 130	30	
Phenol	ND	86	85	1.2	61	60	1.7	30 - 130	30	
Pyrene	ND	92	92	0.0	87	84	3.5	30 - 130	30	
Pyridine	ND	86	83	3.6	61	60	1.7	30 - 130	30	
% 2,4,6-Tribromophenol	99	99	99	0.0	89	89	0.0	30 - 130	30	
% 2-Fluorobiphenyl	87	82	82	0.0	72	74	2.7	30 - 130	30	
% 2-Fluorophenol	93	94	92	2.2	80	78	2.5	30 - 130	30	
% Nitrobenzene-d5	88	77	78	1.3	70	70	0.0	30 - 130	30	
% Phenol-d5	82	85	84	1.2	72	71	1.4	30 - 130	30	

## QA/QC Data

SDG I.D.: GBD78164

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Terphenyl-d14	95	94	96	2.1	89	86	3.4	30 - 130	30

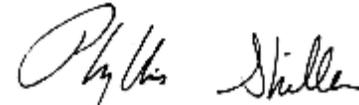
Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.  
m = This parameter is outside laboratory ms/msd specified recovery limits.  
r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference  
LCS - Laboratory Control Sample  
LCSD - Laboratory Control Sample Duplicate  
MS - Matrix Spike  
MS Dup - Matrix Spike Duplicate  
NC - No Criteria  
Intf - Interference



Phyllis Shiller, Laboratory Director  
May 21, 2013

# Sample Criteria Exceedences Report

Requested Criteria: 375, 375RRS, 375RS

GBD78164 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD78164	\$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	530	330	330	ug/Kg
BD78164	\$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	530	330	330	ug/Kg
BD78164	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	3300	530	1000	1000	ug/Kg
BD78164	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3300	530	1000	1000	ug/Kg
BD78164	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3300	530	1000	1000	ug/Kg
BD78164	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	3500	530	1000	1000	ug/Kg
BD78164	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3500	530	1000	1000	ug/Kg
BD78164	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	4300	530	1000	1000	ug/Kg
BD78164	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4300	530	1000	1000	ug/Kg
BD78164	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4300	530	1000	1000	ug/Kg
BD78164	\$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1600	530	1000	1000	ug/Kg
BD78164	\$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	530	800	800	ug/Kg
BD78164	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2900	530	1000	1000	ug/Kg
BD78164	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2900	530	1000	1000	ug/Kg
BD78164	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2900	530	1000	1000	ug/Kg
BD78164	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	1100	530	500	500	ug/Kg
BD78164	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	530	500	500	ug/Kg
BD78164	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	530	500	500	ug/Kg
BD78164	\$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	ND	530	330	330	ug/Kg
BD78164	\$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	530	330	330	ug/Kg
BD78164	\$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	530	330	330	ug/Kg
BD78164	\$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.7	5	5	ug/Kg
BD78164	\$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	36	3.3	3.3	ug/Kg
BD78164	\$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.7	5	5	ug/Kg
BD78164	\$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	36	14	14	ug/Kg
BD78164	\$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	36	3.3	3.3	ug/Kg
BD78164	\$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	54	36	3.3	3.3	ug/Kg
BD78164	BA-SM	Barium	NY / 375-6.8 Metals / Residential	398	0.34	350	350	mg/Kg
BD78164	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	398	0.34	350	350	mg/Kg
BD78164	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	46.4	0.34	1	1	mg/Kg
BD78164	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	97.7	0.34	50	50	mg/kg
BD78164	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	1.15	0.07	0.81	0.81	mg/Kg
BD78164	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.15	0.07	0.81	0.81	mg/Kg
BD78164	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.15	0.07	0.18	0.18	mg/Kg
BD78164	PB-SM	Lead	NY / 375-6.8 Metals / Residential	451	3.4	400	400	mg/Kg
BD78164	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	451	3.4	400	400	mg/Kg
BD78164	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	451	3.4	63	63	mg/Kg
BD78164	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	378	3.4	109	109	mg/Kg
BD78165	\$8260MAR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	150	20	20	ug/Kg
BD78165	\$8260MAR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	2900	50	50	ug/Kg
BD78165	\$8260MAR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	150	50	50	ug/Kg

# Sample Criteria Exceedences Report

Requested Criteria: 375, 375RRS, 375RS

GBD78164 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
BD78165	\$8260MAR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	880	120	120		ug/Kg
BD78165	\$8260MAR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	150	60	60		ug/Kg
BD78165	\$8260MAR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	150	20	20		ug/Kg
BD78165	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	14.9	0.36	1	1		mg/Kg
BD78166	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	3100	280	1000	1000		ug/Kg
BD78166	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3100	280	1000	1000		ug/Kg
BD78166	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3100	280	1000	1000		ug/Kg
BD78166	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	3300	280	1000	1000		ug/Kg
BD78166	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3300	280	1000	1000		ug/Kg
BD78166	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	4000	280	1000	1000		ug/Kg
BD78166	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	4000	280	1000	1000		ug/Kg
BD78166	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4000	280	1000	1000		ug/Kg
BD78166	\$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1300	280	1000	1000		ug/Kg
BD78166	\$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	280	800	800		ug/Kg
BD78166	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2700	280	1000	1000		ug/Kg
BD78166	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2700	280	1000	1000		ug/Kg
BD78166	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2700	280	1000	1000		ug/Kg
BD78166	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	900	280	500	500		ug/Kg
BD78166	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	900	280	500	500		ug/Kg
BD78166	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	900	280	500	500		ug/Kg
BD78166	\$PCB_SMR	PCB-1260	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	130	79	100	100		ug/Kg
BD78166	\$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	6.0	5	5		ug/Kg
BD78166	\$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	34	12	3.3	3.3		ug/Kg
BD78166	\$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	11	6.0	5	5		ug/Kg
BD78166	\$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	38	14	14		ug/Kg
BD78166	\$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	12	3.3	3.3		ug/Kg
BD78166	\$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	140	12	3.3	3.3		ug/Kg
BD78166	BA-SM	Barium	NY / 375-6.8 Metals / Residential	642	0.42	350	350		mg/Kg
BD78166	BA-SM	Barium	NY / 375-6.8 Metals / Residential Restricted	642	0.42	400	400		mg/Kg
BD78166	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	642	0.42	350	350		mg/Kg
BD78166	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	19.3	0.42	1	1		mg/Kg
BD78166	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	55.6	0.42	50	50		mg/kg
BD78166	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.44	0.07	0.18	0.18		mg/Kg
BD78166	PB-SM	Lead	NY / 375-6.8 Metals / Residential	967	4.2	400	400		mg/Kg
BD78166	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	967	4.2	400	400		mg/Kg
BD78166	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	967	4.2	63	63		mg/Kg
BD78166	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	537	4.2	109	109		mg/Kg
BD78167	\$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	3.6	2.2	3.3	3.3		ug/Kg
BD78167	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	22.2	0.39	1	1		mg/Kg
BD78167	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	190	3.9	109	109		mg/Kg

# Sample Criteria Exceedences Report

Requested Criteria: 375, 375RRS, 375RS

GBD78164 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD78168	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	2300	270	1000	1000	ug/Kg
BD78168	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	2300	270	1000	1000	ug/Kg
BD78168	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2300	270	1000	1000	ug/Kg
BD78168	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	2400	270	1000	1000	ug/Kg
BD78168	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2400	270	1000	1000	ug/Kg
BD78168	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	3100	270	1000	1000	ug/Kg
BD78168	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	3100	270	1000	1000	ug/Kg
BD78168	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3100	270	1000	1000	ug/Kg
BD78168	\$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1100	270	1000	1000	ug/Kg
BD78168	\$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	800	800	ug/Kg
BD78168	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2100	270	1000	1000	ug/Kg
BD78168	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2100	270	1000	1000	ug/Kg
BD78168	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2100	270	1000	1000	ug/Kg
BD78168	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	630	270	500	500	ug/Kg
BD78168	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	630	270	500	500	ug/Kg
BD78168	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	630	270	500	500	ug/Kg
BD78168	\$PCB_SMR	PCB-1260	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	120	76	100	100	ug/Kg
BD78168	\$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.7	5	5	ug/Kg
BD78168	\$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD78168	\$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.7	5	5	ug/Kg
BD78168	\$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	37	14	14	ug/Kg
BD78168	\$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD78168	\$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	61	3.3	3.3	ug/Kg
BD78168	BA-SM	Barium	NY / 375-6.8 Metals / Residential	449	0.40	350	350	mg/Kg
BD78168	BA-SM	Barium	NY / 375-6.8 Metals / Residential Restricted	449	0.40	400	400	mg/Kg
BD78168	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	449	0.40	350	350	mg/Kg
BD78168	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	22.2	0.40	1	1	mg/Kg
BD78168	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	60.6	0.40	50	50	mg/kg
BD78168	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	0.86	0.07	0.81	0.81	mg/Kg
BD78168	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	0.86	0.07	0.81	0.81	mg/Kg
BD78168	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.86	0.07	0.18	0.18	mg/Kg
BD78168	PB-SM	Lead	NY / 375-6.8 Metals / Residential	583	4.0	400	400	mg/Kg
BD78168	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	583	4.0	400	400	mg/Kg
BD78168	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	583	4.0	63	63	mg/Kg
BD78168	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	417	4.0	109	109	mg/Kg
BD78169	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	15.1	0.37	1	1	mg/Kg
BD78170	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	2200	260	1000	1000	ug/Kg
BD78170	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	2200	260	1000	1000	ug/Kg
BD78170	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2200	260	1000	1000	ug/Kg
BD78170	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	2100	260	1000	1000	ug/Kg

# Sample Criteria Exceedences Report

Requested Criteria: 375, 375RRS, 375RS

GBD78164 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD78170	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2100	260	1000	1000	ug/Kg
BD78170	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2700	260	1000	1000	ug/Kg
BD78170	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	2700	260	1000	1000	ug/Kg
BD78170	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2700	260	1000	1000	ug/Kg
BD78170	\$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1100	260	1000	1000	ug/Kg
BD78170	\$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	260	800	800	ug/Kg
BD78170	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2000	260	1000	1000	ug/Kg
BD78170	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2000	260	1000	1000	ug/Kg
BD78170	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	260	1000	1000	ug/Kg
BD78170	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	700	260	500	500	ug/Kg
BD78170	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	700	260	500	500	ug/Kg
BD78170	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	700	260	500	500	ug/Kg
BD78170	\$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.6	5	5	ug/Kg
BD78170	\$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	26	3.3	3.3	ug/Kg
BD78170	\$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.6	5	5	ug/Kg
BD78170	\$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	36	14	14	ug/Kg
BD78170	\$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	11	3.3	3.3	ug/Kg
BD78170	\$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	48	3.3	3.3	ug/Kg
BD78170	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	17.6	0.39	1	1	mg/Kg
BD78170	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	53.8	0.39	50	50	mg/kg
BD78170	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	1.27	0.07	0.81	0.81	mg/Kg
BD78170	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.27	0.07	0.81	0.81	mg/Kg
BD78170	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.27	0.07	0.18	0.18	mg/Kg
BD78170	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	330	3.9	63	63	mg/Kg
BD78170	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	253	3.9	109	109	mg/Kg
BD78200	\$8260MER	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	250	210	210	ug/Kg
BD78200	\$8260MER	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg
BD78200	\$8260MER	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	5000	50	50	ug/Kg
BD78200	\$8260MER	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	500	50	50	ug/Kg
BD78200	\$8260MER	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	190	190	ug/Kg
BD78200	\$8260MER	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3000	120	120	ug/Kg
BD78200	\$8260MER	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	60	60	ug/Kg
BD78200	\$8260MER	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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# NY Temperature Narration

May 21, 2013

SDG I.D.: GBD78164

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The samples in this delivery group were received at 4°C.  
(Note acceptance criteria is above freezing up to 6°C)

**NY/NJ CHAIN OF CUSTODY RECORD**



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
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**Client Services (860) 645-8726**

Data Delivery:  
 Fax #  
 Email: csosice@phoenix.com

Customer: EBC Project P.O.: 82 Throop Ave Brodellva NY  
 Address: 1808 W. Idle Country Rd Phone #: 621 504 6000  
Ridge NY Invoice to: EBC Fax #:

Client Sample - Information - Identification		Analysis Request	
Samplers Signature	Date: <u>5.13.13</u>	Analysis Request	
<u>[Signature]</u>			
<b>Matrix Code:</b> DW=drinking water GW=groundwater	WW=wastewater S=soil/solid O=oil SL=sludge A=air X=other		
Phoenix Sample #	Customer Sample Identification	Sample Matrix	Time Sampled
<u>78164</u>	<u>S61 0-2</u>	<u>S</u>	<u>800</u>
<u>78165</u>	<u>S61 8-10</u>	<u>S</u>	<u>830</u>
<u>78166</u>	<u>S62 0-2</u>	<u>S</u>	<u>900</u>
<u>78167</u>	<u>S62 8-10</u>	<u>S</u>	<u>930</u>
<u>78168</u>	<u>S63 0-2</u>	<u>S</u>	<u>1000</u>
<u>78169</u>	<u>S63 8-10</u>	<u>S</u>	<u>1030</u>
<u>78170</u>	<u>Duplicate</u>	<u>S</u>	<u>5.13</u>
<u>78200</u>	<u>TB H</u>		
<u>78201</u>	<u>TB L</u>		

Relinquished by: [Signature] Accepted by: [Signature] Date: 5.13 Time: 9:15

Comments, Specific Requirements or Regulations: \*Rural High? Low level TB\*

Turnaround:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 5 Days  
 10 Days  
 Other  
 \* SURCHARGE APPLIES

NY  Res. Criteria  
 Non-Res. Criteria  
 Impact to GW Soil  
 Cleanup Criteria  
 GW Criteria

NJ  TOGS GA GW  
 CP-51 Soil  
 NY375 Unrestricted Soil  
 NY375 Residential Soil  
 NY375 Restricted Non-Residential Soil

Data Format:  
 Phoenix Std Report  
 Excel  
 PDF  
 GIS/Key  
 EQUIS  
 NJ Hazsite EDD  
 NY EZ EDD (ASP)  
 Other

Data Package:  
 NJ Reduced Deliv.\*  
 NY Enhanced (ASP B)\*  
 Other

State where samples were collected: NY



Tuesday, May 21, 2013

Attn: Mr. Charles B. Sosik, P.G.  
Environmental Business Consultants  
1808 Middle Country Rd  
Ridge NY 11961-2406

Project ID: 82 THROOP AVE BKLYN NY  
Sample ID#s: BD79115 - BD79117

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

May 21, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date Time  
 05/14/13 11:28  
 05/15/13 15:21

## Laboratory Data

SDG ID: GBD79115  
 Phoenix ID: BD79115

Project ID: 82 THROOP AVE BKLYN NY  
 Client ID: SG-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
<b>Volatiles (TO15)</b>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	05/16/13	KCA	TO15 1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	05/16/13	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	05/16/13	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	05/16/13	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	05/16/13	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	05/16/13	KCA	TO15
1,2,4-Trichlorobenzene	0.2	0.135	1.48	1.00	05/16/13	KCA	TO15
1,2,4-Trimethylbenzene	1.57	0.204	7.71	1.00	05/16/13	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	05/16/13	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	05/16/13	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	05/16/13	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	05/16/13	KCA	TO15
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	05/16/13	KCA	TO15
1,3,5-Trimethylbenzene	0.49	0.204	2.41	1.00	05/16/13	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	05/16/13	KCA	TO15
1,3-Dichlorobenzene	1.17	0.166	7.03	1.00	05/16/13	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	05/16/13	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	05/16/13	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	05/16/13	KCA	TO15 1
4-Ethyltoluene	0.48	0.204	2.36	1.00	05/16/13	KCA	TO15 1
4-Isopropyltoluene	0.46	0.182	2.52	1.00	05/16/13	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	2.68	0.244	11.0	1.00	05/16/13	KCA	TO15
Acetone	1100	0.421	2610	1.00	05/16/13	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	05/16/13	KCA	TO15
Benzene	1.3	0.313	4.15	1.00	05/16/13	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	05/16/13	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	05/16/13	KCA	TO15

Client ID: SG-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	05/16/13	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	05/16/13	KCA	TO15
Carbon Disulfide	0.38	0.321	1.18	1.00	05/16/13	KCA	TO15
Carbon Tetrachloride	0.09	0.040	0.566	0.25	05/16/13	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	05/16/13	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	05/16/13	KCA	TO15
Chloroform	ND	0.205	ND	1.00	05/16/13	KCA	TO15
Chloromethane	1.59	0.484	3.28	1.00	05/16/13	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	05/16/13	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	05/16/13	KCA	TO15 1
Cyclohexane	2.21	0.291	7.60	1.00	05/16/13	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	05/16/13	KCA	TO15
Dichlorodifluoromethane	0.42	0.202	2.08	1.00	05/16/13	KCA	TO15
Ethanol	600	0.531	1130	1.00	05/16/13	KCA	TO15 1
Ethyl acetate	19.5	0.278	70.2	1.00	05/16/13	KCA	TO15 1
Ethylbenzene	1.61	0.230	6.99	1.00	05/16/13	KCA	TO15
Heptane	2.62	0.244	10.7	1.00	05/16/13	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	05/16/13	KCA	TO15
Hexane	1.44	0.284	5.07	1.00	05/16/13	KCA	TO15
Isopropylalcohol	17.9	0.407	44.0	1.00	05/16/13	KCA	TO15
Isopropylbenzene	ND	0.204	ND	1.00	05/16/13	KCA	TO15
m,p-Xylene	4.99	0.230	21.6	1.00	05/16/13	KCA	TO15
Methyl Ethyl Ketone	20.8	0.339	61.3	1.00	05/16/13	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	05/16/13	KCA	TO15
Methylene Chloride	1.23	0.288	4.27	1.00	05/16/13	KCA	TO15
n-Butylbenzene	ND	0.182	ND	1.00	05/16/13	KCA	TO15 1
o-Xylene	1.84	0.230	7.98	1.00	05/16/13	KCA	TO15
Propylene	44	0.581	75.7	1.00	05/16/13	KCA	TO15 1
sec-Butylbenzene	ND	0.182	ND	1.00	05/16/13	KCA	TO15 1
Styrene	ND	0.235	ND	1.00	05/16/13	KCA	TO15
Tetrachloroethene	0.12	0.037	0.813	0.25	05/16/13	KCA	TO15
Tetrahydrofuran	1.28	0.339	3.77	1.00	05/16/13	KCA	TO15 1
Toluene	3.92	0.266	14.8	1.00	05/16/13	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	05/16/13	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	05/16/13	KCA	TO15
Trichloroethene	0.07	0.047	0.376	0.25	05/16/13	KCA	TO15
Trichlorofluoromethane	0.2	0.178	1.12	1.00	05/16/13	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	05/16/13	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	05/16/13	KCA	TO15
<b><u>QA/QC Surrogates</u></b>							
% Bromofluorobenzene	104	%	104	%	05/16/13	KCA	TO15

Client ID: SG-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

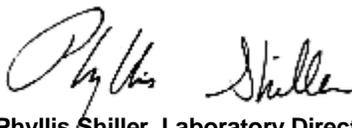
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level

**Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**May 21, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

May 21, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date Time  
 05/14/13 11:25  
 05/15/13 15:21

## Laboratory Data

SDG ID: GBD79115  
 Phoenix ID: BD79116

Project ID: 82 THROOP AVE BKLYN NY  
 Client ID: SG-2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
<b>Volatiles (TO15)</b>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	05/16/13	KCA	TO15 1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	05/16/13	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	05/16/13	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	05/16/13	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	05/16/13	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	05/16/13	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	05/16/13	KCA	TO15
1,2,4-Trimethylbenzene	1.56	0.204	7.66	1.00	05/16/13	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	05/16/13	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	05/16/13	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	05/16/13	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	05/16/13	KCA	TO15
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	05/16/13	KCA	TO15
1,3,5-Trimethylbenzene	0.51	0.204	2.50	1.00	05/16/13	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	05/16/13	KCA	TO15
1,3-Dichlorobenzene	1.34	0.166	8.05	1.00	05/16/13	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	05/16/13	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	05/16/13	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	05/16/13	KCA	TO15 1
4-Ethyltoluene	0.45	0.204	2.21	1.00	05/16/13	KCA	TO15 1
4-Isopropyltoluene	0.43	0.182	2.36	1.00	05/16/13	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	1.99	0.244	8.15	1.00	05/16/13	KCA	TO15
Acetone	755	0.421	1790	1.00	05/16/13	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	05/16/13	KCA	TO15
Benzene	0.98	0.313	3.13	1.00	05/16/13	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	05/16/13	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	05/16/13	KCA	TO15

Client ID: SG-2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	05/16/13	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	05/16/13	KCA	TO15
Carbon Disulfide	0.79	0.321	2.46	1.00	05/16/13	KCA	TO15
Carbon Tetrachloride	0.08	0.040	0.503	0.25	05/16/13	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	05/16/13	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	05/16/13	KCA	TO15
Chloroform	ND	0.205	ND	1.00	05/16/13	KCA	TO15
Chloromethane	1.76	0.484	3.63	1.00	05/16/13	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	05/16/13	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	05/16/13	KCA	TO15 1
Cyclohexane	2.31	0.291	7.95	1.00	05/16/13	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	05/16/13	KCA	TO15
Dichlorodifluoromethane	0.48	0.202	2.37	1.00	05/16/13	KCA	TO15
Ethanol	808	0.531	1520	1.00	05/16/13	KCA	TO15 1
Ethyl acetate	19.2	0.278	69.1	1.00	05/16/13	KCA	TO15 1
Ethylbenzene	1.44	0.230	6.25	1.00	05/16/13	KCA	TO15
Heptane	2.17	0.244	8.89	1.00	05/16/13	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	05/16/13	KCA	TO15
Hexane	4.1	0.284	14.4	1.00	05/16/13	KCA	TO15
Isopropylalcohol	25.3	0.407	62.2	1.00	05/16/13	KCA	TO15
Isopropylbenzene	ND	0.204	ND	1.00	05/16/13	KCA	TO15
m,p-Xylene	4.39	0.230	19.0	1.00	05/16/13	KCA	TO15
Methyl Ethyl Ketone	32.8	0.339	96.7	1.00	05/16/13	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	05/16/13	KCA	TO15
Methylene Chloride	1.51	0.288	5.24	1.00	05/16/13	KCA	TO15
n-Butylbenzene	ND	0.182	ND	1.00	05/16/13	KCA	TO15 1
o-Xylene	1.74	0.230	7.55	1.00	05/16/13	KCA	TO15
Propylene	54.9	0.581	94.4	1.00	05/16/13	KCA	TO15 1
sec-Butylbenzene	ND	0.182	ND	1.00	05/16/13	KCA	TO15 1
Styrene	ND	0.235	ND	1.00	05/16/13	KCA	TO15
Tetrachloroethene	0.14	0.037	0.949	0.25	05/16/13	KCA	TO15
Tetrahydrofuran	0.62	0.339	1.83	1.00	05/16/13	KCA	TO15 1
Toluene	3.22	0.266	12.1	1.00	05/16/13	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	05/16/13	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	05/16/13	KCA	TO15
Trichloroethene	0.35	0.047	1.88	0.25	05/16/13	KCA	TO15
Trichlorofluoromethane	0.56	0.178	3.14	1.00	05/16/13	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	05/16/13	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	05/16/13	KCA	TO15
<b><u>QA/QC Surrogates</u></b>							
% Bromofluorobenzene	104	%	104	%	05/16/13	KCA	TO15

Client ID: SG-2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
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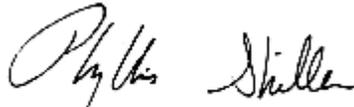
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level

**Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**May 21, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

May 21, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date Time  
 05/14/13 11:15  
 05/15/13 15:21

## Laboratory Data

SDG ID: GBD79115  
 Phoenix ID: BD79117

Project ID: 82 THROOP AVE BKLYN NY  
 Client ID: SG-3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
<b>Volatiles (TO15)</b>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	05/16/13	KCA	TO15 1
1,1,1-Trichloroethane	0.21	0.183	1.14	1.00	05/16/13	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	05/16/13	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	05/16/13	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	05/16/13	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	05/16/13	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	05/16/13	KCA	TO15
1,2,4-Trimethylbenzene	1.39	0.204	6.83	1.00	05/16/13	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	05/16/13	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	05/16/13	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	05/16/13	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	05/16/13	KCA	TO15
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	05/16/13	KCA	TO15
1,3,5-Trimethylbenzene	0.46	0.204	2.26	1.00	05/16/13	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	05/16/13	KCA	TO15
1,3-Dichlorobenzene	1.03	0.166	6.19	1.00	05/16/13	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	05/16/13	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	05/16/13	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	05/16/13	KCA	TO15 1
4-Ethyltoluene	0.39	0.204	1.92	1.00	05/16/13	KCA	TO15 1
4-Isopropyltoluene	0.41	0.182	2.25	1.00	05/16/13	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	1.65	0.244	6.76	1.00	05/16/13	KCA	TO15
Acetone	1020	0.421	2420	1.00	05/16/13	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	05/16/13	KCA	TO15
Benzene	0.85	0.313	2.71	1.00	05/16/13	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	05/16/13	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	05/16/13	KCA	TO15

Client ID: SG-3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	05/16/13	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	05/16/13	KCA	TO15
Carbon Disulfide	5.67	0.321	17.6	1.00	05/16/13	KCA	TO15
Carbon Tetrachloride	0.05	0.040	0.314	0.25	05/16/13	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	05/16/13	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	05/16/13	KCA	TO15
Chloroform	ND	0.205	ND	1.00	05/16/13	KCA	TO15
Chloromethane	0.57	0.484	1.18	1.00	05/16/13	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	05/16/13	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	05/16/13	KCA	TO15 1
Cyclohexane	6.15	0.291	21.2	1.00	05/16/13	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	05/16/13	KCA	TO15
Dichlorodifluoromethane	0.47	0.202	2.32	1.00	05/16/13	KCA	TO15
Ethanol	473	0.531	891	1.00	05/16/13	KCA	TO15 1
Ethyl acetate	13.6	0.278	49.0	1.00	05/16/13	KCA	TO15 1
Ethylbenzene	1.67	0.230	7.25	1.00	05/16/13	KCA	TO15
Heptane	2.77	0.244	11.3	1.00	05/16/13	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	05/16/13	KCA	TO15
Hexane	4.58	0.284	16.1	1.00	05/16/13	KCA	TO15
Isopropylalcohol	21.8	0.407	53.6	1.00	05/16/13	KCA	TO15
Isopropylbenzene	ND	0.204	ND	1.00	05/16/13	KCA	TO15
m,p-Xylene	4.99	0.230	21.6	1.00	05/16/13	KCA	TO15
Methyl Ethyl Ketone	106	0.339	312	1.00	05/16/13	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	05/16/13	KCA	TO15
Methylene Chloride	1.18	0.288	4.10	1.00	05/16/13	KCA	TO15
n-Butylbenzene	ND	0.182	ND	1.00	05/16/13	KCA	TO15 1
o-Xylene	1.85	0.230	8.03	1.00	05/16/13	KCA	TO15
Propylene	28	0.581	48.2	1.00	05/16/13	KCA	TO15 1
sec-Butylbenzene	ND	0.182	ND	1.00	05/16/13	KCA	TO15 1
Styrene	ND	0.235	ND	1.00	05/16/13	KCA	TO15
Tetrachloroethene	0.32	0.037	2.17	0.25	05/16/13	KCA	TO15
Tetrahydrofuran	8.45	0.339	24.9	1.00	05/16/13	KCA	TO15 1
Toluene	4.51	0.266	17.0	1.00	05/16/13	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	05/16/13	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	05/16/13	KCA	TO15
Trichloroethene	0.06	0.047	0.322	0.25	05/16/13	KCA	TO15
Trichlorofluoromethane	0.49	0.178	2.75	1.00	05/16/13	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	05/16/13	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	05/16/13	KCA	TO15
<b><u>QA/QC Surrogates</u></b>							
% Bromofluorobenzene	106	%	106	%	05/16/13	KCA	TO15

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
-----------	----------------	------------	-----------------	-------------	-----------	----	-----------

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

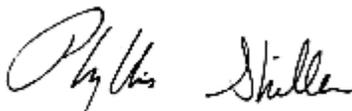
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level

**Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**May 21, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

May 21, 2013

## QA/QC Data

SDG I.D.: GBD79115

Parameter	Blank ppbv	Blank ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 231156, QC Sample No: BD79117 (BD79115, BD79116, BD79117)										
<b>Volatiles</b>										
1,1,1,2-Tetrachloroethane	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	ND	97	1.09	1.14	0.2	0.21	4.9	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	ND	95	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	ND	92	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	ND	95	6.83	7.22	1.39	1.47	5.6	70 - 130	20
1,2-Dibromoethane(EDB)	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	ND	90	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
1,3,5-Trimethylbenzene	ND	ND	96	2.11	2.41	0.43	0.49	13.0	70 - 130	20
1,3-Butadiene	ND	ND	92	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	ND	94	6.19	6.79	1.03	1.13	9.3	70 - 130	20
1,4-Dichlorobenzene	ND	ND	93	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	ND	91	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	ND	93	ND	ND	ND	ND	NC	70 - 130	20
4-Ethyltoluene	ND	ND	101	1.87	2.41	0.38	0.49	25.3	70 - 130	20
4-Isopropyltoluene	ND	ND	92	1.97	2.36	0.36	0.43	17.7	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	ND	93	6.76	6.55	1.65	1.6	3.1	70 - 130	20
Acetone	ND	ND	81	1200	1200	507	504	0.6	70 - 130	20
Acrylonitrile	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	ND	105	2.71	3.00	0.85	0.94	10.1	70 - 130	20
Benzyl chloride	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	ND	90	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	ND	113	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	ND	95	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	ND	87	17.6	18.4	5.67	5.9	4.0	70 - 130	20
Carbon Tetrachloride	ND	ND	100	0.314	0.314	0.05	0.05	0.0	70 - 130	20
Chlorobenzene	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	ND	97	ND	ND	ND	ND	NC	70 - 130	20
Chloromethane	ND	ND	105	1.18	1.38	0.57	0.67	16.1	70 - 130	20
Cis-1,2-Dichloroethene	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	ND	108	21.2	22.2	6.15	6.45	4.8	70 - 130	20
Dibromochloromethane	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	ND	98	2.37	2.37	0.48	0.48	0.0	70 - 130	20
Ethanol	ND	ND	105	876	883	465	469	0.9	70 - 130	20

QA/QC Data

SDG I.D.: GBD79115

Parameter	Blank ppbv	Blank ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	ND	100	49.0	50.8	13.6	14.1	3.6	70 - 130	20
Ethylbenzene	ND	ND	108	7.25	7.68	1.67	1.77	5.8	70 - 130	20
Heptane	ND	ND	86	11.3	11.5	2.77	2.8	1.1	70 - 130	20
Hexachlorobutadiene	ND	ND	82	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	ND	105	16.1	17.3	4.58	4.92	7.2	70 - 130	20
Isopropylalcohol	ND	ND	93	53.6	55.0	21.8	22.4	2.7	70 - 130	20
Isopropylbenzene	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
m,p-Xylene	ND	ND	103	21.6	22.4	4.99	5.17	3.5	70 - 130	20
Methyl Ethyl Ketone	ND	ND	101	295	292	100	98.9	1.1	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	ND	ND	83	4.10	3.99	1.18	1.15	2.6	70 - 130	20
n-Butylbenzene	ND	ND	86	ND	ND	ND	ND	NC	70 - 130	20
o-Xylene	ND	ND	100	8.03	8.33	1.85	1.92	3.7	70 - 130	20
Propylene	ND	ND	108	48.2	50.2	28	29.2	4.2	70 - 130	20
sec-Butylbenzene	ND	ND	90	ND	ND	ND	ND	NC	70 - 130	20
Styrene	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
Tetrachloroethene	ND	ND	95	2.44	2.24	0.36	0.33	8.7	70 - 130	20
Tetrahydrofuran	ND	ND	117	24.9	25.6	8.45	8.68	2.7	70 - 130	20
Toluene	ND	ND	97	17.0	16.6	4.51	4.4	2.5	70 - 130	20
Trans-1,2-Dichloroethene	ND	ND	92	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	ND	88	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	ND	99	0.430	0.322	0.08	0.06	28.6	70 - 130	20
Trichlorofluoromethane	ND	ND	89	2.92	2.75	0.52	0.49	5.9	70 - 130	20
Trichlorotrifluoroethane	ND	ND	97	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	ND	95	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	72	72	99	106	106	106	106	0.0	70 - 130	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director  
May 21, 2013

Tuesday, May 21, 2013

Requested Criteria: None

State: NY

# Sample Criteria Exceedences Report

Page 1 of 1

**GBD79115 - EBC**

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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**CHAIN OF CUSTODY RECORD**  
**AIR ANALYSES**

800-827-5426  
 email: greg@phoenixlabs.com

P.O. # \_\_\_\_\_ Page 1 of 1

Data Delivery:  Fax #: \_\_\_\_\_

Email: csosika@phoenix.com

Phone #: \_\_\_\_\_

Report to: DSC  
 Customer: ERC  
 Address: Ridge Mt

Invoice to: BSC  
 Project Name: 82 Throop Ave Blyton  
 Criteria Requested: Deliverable:  RCP  MCP

Sampled by: iw  
 State where samples collected: NJ

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	THIS SECTION FOR LAB USE ONLY						Flow Controller Setting (ml/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	MATRIX			ANALYSES
				Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (ml/min)	Ambient/Indoor Air	Soil Gas							Grab (G) Composite (C)			
79115	SG-1	834	1.4	-30	-5	2870	10	1128	1331	5/14	-30	-8	X					X	
79116	SG-2	809	↓	↓	-6	5647	↓	1125	1336	↓	-30	-8	X					X	
79117	SG-3	760	↓	↓	-3	5660	↓	1115	1220	↓	-28	-7	X					X	
	1.4L																		

Relinquished by: [Signature] Date: 5-15-17 Time: 11:10

Accepted by: [Signature] Date: 5-15-17 Time: 11:10

Quote Number: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Special Instructions, OC Requirements or Regulatory Information: Paradise

Latest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.

**APPENDIX B**

***Remedial Action Plan and Stip List***

**82 THROOP AVENUE**  
**BROOKLYN, NEW YORK**

---

# **Remedial Action Work Plan**

**NYC VCP Number: 13CVCP147K**

**Prepared for:**

Throop Wallabout Realty, LLC  
505 Flushing Avenue, Suite 1D  
Brooklyn, New York 11205

**Prepared by:**

***EBC***

***ENVIRONMENTAL BUSINESS CONSULTANTS***

1808 Middle Country Road  
Ridge, NY 11961

---

**JUNE 2013**

# **REMEDIAL ACTION WORK PLAN**

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Table 1	Imported Backfill and Clean Soil Limits
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## ***FIGURES***

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Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Layout of Proposed Site Development
Figure 4	Surrounding Land Usage
Figure 5	Excavation and Capping Plan
Figure 6	Endpoint Sampling Plan
Figure 7	Vapor Barrier Plan

## ***ATTACHMENTS***

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Attachment A	Proposed Development Plans
Attachment B	Citizen Participation Plan
Attachment C	Sustainability Statement
Attachment D	Soil/Materials Management Plan
Attachment E	Site-Specific Construction Health and Safety Plan (CHASP)
Attachment F	Vapor barrier specifications

## LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
AS/SVE	Air Sparging/Soil Vapor Extraction
BOA	Brownfield Opportunity Area
CAMP	Community Air Monitoring Plan
C/D	Construction/Demolition
COC	Certificate of Completion
CQAP	Construction Quality Assurance Plan
CSOP	Contractors Site Operation Plan
DCR	Declaration of Covenants and Restrictions
ECs/ICs	Engineering and Institutional Controls
HASP	Health and Safety Plan
IRM	Interim Remedial Measure
VCA	Voluntary Cleanup Agreement
MNA	Monitored Natural Attenuation
NOC	Notice of Completion
NYC VCP	New York City Voluntary Cleanup Program
NYC DEP	New York City Department of Environmental Protection
NYC DOHMH	New York State Department of Health and Mental Hygiene
NYCRR	New York Codes Rules and Regulations
NYC OER	New York City Office of Environmental Remediation
NYS DEC	New York State Department of Environmental Conservation
NYS DEC DER	New York State Department of Environmental Conservation Division of Environmental Remediation
NYS DOH	New York State Department of Health
NYS DOT	New York State Department of Transportation
ORC	Oxygen-Release Compound
OSHA	United States Occupational Health and Safety Administration
PE	Professional Engineer

PID	Photo Ionization Detector
QEP	Qualified Environmental Professional
QHHEA	Qualitative Human Health Exposure Assessment
RAOs	Remedial Action Objectives
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan or Plan
RCA	Recycled Concrete Aggregate
RD	Remedial Design
RI	Remedial Investigation
RMZ	Residual Management Zone
SCOs	Soil Cleanup Objectives
SCG	Standards, Criteria and Guidance
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
SVOC	Semi-Volatile Organic Compound
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compound

# CERTIFICATION

I, Ariel Czemerinski, am a Professional Engineer licensed in the State of New York. I have primary direct responsibility for implementation of the remedial action for the Redevelopment Project located at 82 Throop Avenue, Brooklyn, New York, VCP Site number 13CVCP147K.

I certify that this Remedial Action Work Plan (RAWP) has a plan for handling, transport and disposal of soil, fill, fluids and other materials removed from the property in accordance with applicable City, State and Federal laws and regulations. Importation of all soil, fill and other material from off-Site will be in accordance with all applicable City, State and Federal laws and requirements. This RAWP has provisions to control nuisances during the remediation and all invasive work, including dust and odor suppression.

\_\_\_\_\_  
Name

\_\_\_\_\_  
NYS PE License Number

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



## EXECUTIVE SUMMARY

Throop Wallabout Realty, LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 2,548-ft<sup>2</sup> Site located at 82 Throop Avenue in Brooklyn, New York. A remedial investigation (RI) was performed to compile and evaluate data and information necessary to develop this Remedial Action Work Plan (RAWP). The remedial action described in this document provides for the protection of public health and the environment consistent with the intended property use, complies with applicable environmental standards, criteria and guidance and conforms with applicable laws and regulations.

### Site Location and Current Usage

The Site is located at 82 Throop Avenue in the Williamsburg section of Brooklyn, New York, and is identified as Block 2266 and Lot 34 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 2,548-square feet and is bounded by Block 2266 Lot 32 (vacant land) to the north, Gerry Street and Block 2269 Lot 27 (vacant land) to the south, Throop Avenue and Block 2267 Lot 7501 (multi-story mixed residential/commercial building) to the east, and Block 2266 Lot 36 (vacant land) to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is undeveloped, vacant and uncapped.

### Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of redeveloping the Lot with a 4-story apartment building. The 25.48 ft wide tax lot will have a full cellar beneath the footprint of the building. The building will extend approximately 65 feet. Therefore, the gross building square footage will be approximately 8,125 ft<sup>2</sup>. There will be a rear cellar level walk-out court yard behind the building, which will be approximately 35 feet deep. The concrete slab of the cellar will be approximately 6 feet 4 inches below sidewalk level. The street front portion of the cellar will consist of a boiler room, gas meter room, electric meter room and a large open cellar area. The remaining portions of the cellar will consist of residential space. The building will consist of three residential units.

Excavation for each new building and rear cellar level court yard will likely extend to a depth of approximately 8 feet below grade for construction of the buildings cellar levels and foundations.

Assuming an excavation volume of approximately 25 feet (wide) by 100 feet (length) and 8 feet (deep), a total of approximately 750 cubic yards (1,100 tons) of soil will require excavation. The slab and rear cellar level court yard for each building will be capped with a 1 ft 6 inch layer of concrete.

### **Summary of the Remedy**

The proposed remedial action achieves protection of public health and the environment for the intended use of the property. The proposed remedial action achieves all of the remedial action objectives established for the project and addresses applicable standards, criterion, and guidance; is effective in both the short-term and long-term and reduces mobility, toxicity and volume of contaminants; is cost effective and implementable; and uses standards methods that are well established in the industry.

The proposed remedial action will consist of:

1. Preparation of a Community Protection Statement and implementation of all required NYC VCP Citizen Participation activities according to an approved Citizen Participation Plan;
2. Performance of a Community Air Monitoring Program for particulates and volatile organic carbon compounds;
3. Establishment of Track 1 Unrestricted Use Soil Cleanup Objectives (SCOs);
4. Site mobilization involving Site security setup, equipment mobilization, utility mark outs and marking & staking excavation areas;
5. Excavation and removal of soil/fill exceeding Track 1 Unrestricted Use SCOs. For development purposes, the entire property will be excavated to a depth of 8 feet;
6. Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID. Appropriate segregation of excavated media on-Site;
7. Removal of underground storage tanks (if encountered) and closure of petroleum spills (if evidence of a spill/leak is encountered during Site excavation) in compliance with applicable local, State and Federal laws and regulations;
8. Transportation and off-Site disposal of all soil/fill material (estimated 750 tons) at permitted facilities in accordance with applicable laws and regulations for handling,

- transport, and disposal, and this plan. Sampling and analysis of excavated media as required by disposal facilities;
9. Collection and analysis of end-point samples to determine the performance of the remedy with respect to attainment of SCOs;
  10. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations;
  11. As part of development, installation of a vapor barrier below the basement concrete slab and behind the foundation walls of the proposed building;
  12. As part of development, construction and maintenance of an engineered composite cover consisting of a 18 inch thick concrete basement slab;
  13. Implementation of storm-water pollution prevention measures in compliance with applicable laws and regulations;
  14. Performance of all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations;
  15. Submission of a Remedial Action Report (RAR) that describes the remedial activities, certifies that the remedial requirements have been achieved, defines the Site boundaries, lists any changes from this RAWP, and, if Track 1 SCOs are not achieved, describes all Engineering and Institutional Controls to be implemented at the Site;
  16. If Track 1 is not achieved, submission of an approved Site Management Plan (SMP) in the RAR for long-term management of residual contamination, including plans for maintenance, monitoring, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency; and
  17. If Track 1 is not achieved, the property will continue to be flagged with an E-Designation by the NYC Buildings Department. Establishment of Engineering Controls and Institutional Controls in this RAWP and a requirement that management of these controls must be in compliance with an approved SMP. Institutional Controls will include prohibition of the following: (1) vegetable gardening and farming; (2) use of groundwater without treatment rendering it safe for the intended use; (3) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (4) higher level of land usage without OER-approval.

## COMMUNITY PROTECTION STATEMENT

The Office of Environmental Remediation (OER) created the New York City Voluntary Cleanup Program (NYC VCP) to provide governmental oversight for the cleanup of contaminated property in NYC. This Remedial Action Work Plan (“cleanup plan”) describes the findings of prior environmental studies that show the location of contamination at the Site, and describes the plans to clean up the Site to protect public health and the environment.

This cleanup plan provides a very high level of protection for neighboring communities and also includes many other elements that address common community concerns, such as community air monitoring, odor, dust and noise controls, hours of operation, good housekeeping and cleanliness, truck management and routing, and opportunities for community participation. The purpose of this Community Protection Statement is to explain these community protection measures in non-technical language to simplify community review.

**Remedial Investigation and Cleanup Plan.** Under the NYC VCP, a thorough cleanup study of this property (called a remedial investigation) has been performed to identify past property usage, to sample and test soils, groundwater and soil vapor, and identify contaminant sources present on the property. The cleanup plan has been designed to address all contaminant sources that have been identified during the study of this property.

**Identification of Sensitive Land Uses.** Prior to selecting a cleanup, the neighborhood was evaluated to identify sensitive land uses nearby, such as schools, day care facilities, hospitals and residential areas. The cleanup program was then tailored to address the special conditions of this community.

**Qualitative Human Health Exposure Assessment.** An important part of the cleanup planning for the Site is the performance of a study to find all of the ways that people might come in contact with contaminants at the Site now or in the future. This study is called a Qualitative Human Health Exposure Assessment (QHHEA). A QHHEA was performed for this project. This assessment has considered all known contamination at the Site and evaluated the potential for people to come in contact with this contamination. All identified public exposures will be addressed under this cleanup plan.

**Health and Safety Plan.** This cleanup plan includes a Construction Health and Safety Plan (CHASP) that is designed to protect community residents and on-Site workers. The elements of this plan are in compliance with safety requirements of the United States Occupational Safety and Health Administration (OSHA). This plan includes many protective elements including those discussed below.

**Site Safety Coordinator.** This project has a designated Site Safety Coordinator to implement the Health and Safety Plan. The Site Safety Coordinator maintains an emergency contact sheet and protocol for management of emergencies. The Site Safety Coordinator is Mr. Kevin Waters of Environmental Business Consultants. Mr. Waters can be reached at (631) 504-6000.

**Worker Training.** Workers participating in cleanup of contaminated material on this project are required to be trained in a 40-hour hazardous waste operators training course and to take annual refresher training. This pertains only to workers performing specific tasks including removing hazardous material and installing cleanup systems in contaminated areas.

**Community Air Monitoring Plan.** Community air monitoring will be performed during this cleanup project to ensure that the community is properly protected from contaminants, dust and odors. Air samples will be tested in accordance with a detailed plan called the Community Air Monitoring Plan (CAMP). Results will be regularly reported to the NYC OER. This cleanup plan also has a plan to address any unforeseen problems that might occur during the cleanup (called a 'Contingency Plan').

**Odor, Dust and Noise Control.** This cleanup plan includes actions for odor and dust control. These actions are designed to prevent off-Site odor and dust nuisances and includes steps to be taken if nuisances are detected. Generally, dust is managed by application of physical covers and by water sprays. Odors are controlled by limiting the area of open excavations, physical covers, spray foams and by a series of other actions (called operational measures). The project is also required to comply with NYC noise control standards. If you observe problems in these areas, please contact the on-Site Project Manager, Kevin Brussee at (631) 504-6000 or NYC Office of Environmental Remediation Project Manager, Horace Zhang at (212) 788-8841.

**Quality Assurance.** This cleanup plan requires that evidence be provided to illustrate that all cleanup work required under the plan has been completed properly. This evidence will be summarized in the final report, called the Remedial Action Report. This report will be submitted to the NYC Office of Environmental Remediation and will be thoroughly reviewed.

**Storm-Water Management.** To limit the potential for soil erosion and discharge, this cleanup plan has provisions for storm-water management. The main elements of the storm water management include physical barriers such as tarp covers and erosion fencing, and a program for frequent inspection.

**Hours of Operation.** The hours for operation of cleanup will comply with the NYC Department of Buildings construction code requirements or according to specific variances issued by that agency. For this cleanup project, the hours of operation are 7:00AM to 6:00PM Monday through Friday.

**Signage.** While the cleanup is in progress, a placard will be prominently posted at the main entrance of the property with a laminated project Fact Sheet that states that the project is in the NYC Voluntary Cleanup Program, provides project contact names and numbers, and locations of project documents can be viewed.

**Complaint Management.** The contractor performing this cleanup is required to address all complaints. If you have any complaints, you can call the facility Project Manager, Mr. Kevin Brussee (EBC) at (631) 504-6000, the NYC Office of Environmental Remediation Project Manager, Horace Zhang at (212) 788-8841, or call 311 and mention the Site is in the NYC Voluntary Cleanup Program.

**Utility Mark-outs.** To promote safety during excavation in this cleanup, the contractor is required to first identify all utilities and must perform all excavation and construction work in compliance with NYC Department of Buildings regulations.

**Soil and Liquid Disposal.** All soil and liquid material removed from the Site as part of the cleanup will be transported and disposed of in accordance with all applicable City, State and Federal regulations and required permits will be obtained.

**Soil Chemical Testing and Screening.** All excavations will be supervised by a trained and properly qualified environmental professional. In addition to extensive sampling and chemical testing of soils on the Site, excavated soil will be screened continuously using hand-held instruments, by sight, and by smell to ensure proper material handling and management, and community protection.

**Stockpile Management.** Soil stockpiles will be kept covered with tarps to prevent dust, odors and erosion. Stockpiles will be frequently inspected. Damaged tarp covers will be promptly replaced. Stockpiles will be protected with silt fences. Hay bales will be used, as needed to protect storm water catch basins and other discharge points.

**Trucks and Covers.** Loaded trucks leaving the Site will be covered in compliance with applicable laws and regulations to prevent dust and odor. Trucks will be properly recorded in logs and records and placarded in compliance with applicable City, State and Federal laws, including those of the New York State Department of Transportation. If loads contain wet material that can leak, truck liners will be used. All transport of materials will be performed by licensed truckers and in compliance with all laws and regulations.

**Imported Material.** All fill materials proposed to be brought onto the Site will comply with rules outlined in this cleanup plan and will be inspected and approved by a qualified worker located on-Site. Waste materials will not be brought onto the Site. Trucks entering the Site with imported clean materials will be covered in compliance with applicable laws and regulations.

**Equipment Decontamination.** All equipment used for cleanup work will be inspected and washed, if needed, before it leaves the Site. Trucks will be cleaned at a truck inspection station on the property before leaving the Site.

**Housekeeping.** Locations where trucks enter or leave the Site will be inspected every day and cleaned regularly to ensure that they are free of dirt and other materials from the Site.

**Truck Routing.** Truck routes have been selected to: (a) limit transport through residential areas and past sensitive nearby properties; (b) maximize use of city-mapped truck routes; (c) limit total distance to major highways; (d) promote safety in entry to highways; (e) promote overall safety

in trucking; and (f) minimize off-Site line-ups (queuing) of trucks entering the property. Operators of loaded trucks leaving the Site will be instructed not to stop or idle in the local neighborhood.

**Final Report.** The results of all cleanup work will be fully documented in a final report (called a Remedial Action Report) that will be available for you to review in the public document repositories located at the Brooklyn Library - Bushwick Branch (340 Bushwick Avenue).

**Long-Term Site Management.** If long-term protection is required after the cleanup is complete, the property owner will be required to comply with an ongoing Site Management Plan (If Track 1 cleanup is not achieved) that calls for continued inspection of protective controls, such as Site covers. The Site Management Plan is evaluated and approved by the NYC OER. Requirements that the property owner must comply with are established through a City environmental designation. A certification of continued protectiveness of the cleanup will be required from time to time to show that the approved cleanup is still effective.

# REMEDIAL ACTION WORK PLAN

## 1.0 SITE BACKGROUND

Throop Wallabout Realty, LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a property located at 82 Throop Avenue in the Williamsburg section of Brooklyn, New York (the Site). A Remedial Investigation (RI) was performed to compile and evaluate data and information necessary to develop this Remedial Action Work Plan (RAWP) in a manner that will render the Site protective of public health and the environment consistent with the contemplated end use. This RAWP establishes remedial action objectives, provides remedial alternatives analysis that includes consideration of a permanent cleanup, and provides a description of the selected remedial action. The remedial action described in this document provides for the protection of public health and the environment, complies with applicable environmental standards, criteria and guidance and applicable laws and regulations.

### 1.1 Site Location and Current Usage

The Site is located at 82 Throop Avenue in the Williamsburg section of Brooklyn, New York, and is identified as Block 2266 and Lot 34 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 2,548-square feet and is bounded by Block 2266 Lot 32 (vacant land) to the north, Gerry Street and Block 2269 Lot 27 (vacant land) to the south, Throop Avenue and Block 2267 Lot 7501 (multi-story mixed residential/commercial building) to the east, and Block 2266 Lot 36 (vacant land) to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is undeveloped, vacant and uncapped.

### 1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of redeveloping the Lot with a 4-story apartment building. The 25.48 ft wide tax lot will have a full cellar beneath the footprint of the building. The building will extend approximately 65 feet. Therefore, the gross building square footage will be approximately 8,125 ft<sup>2</sup>. There will be a rear cellar level walk-out court yard behind the building. The concrete slab of the cellar will be approximately 6 feet 4 inches below sidewalk level. The street front portion of the cellar will consist of a boiler room, gas meter room, electric



meter room and a large open cellar area. The remaining portions of the cellar will consist of residential space. The building will consist of three residential units.

Excavation for new building and rear cellar level court yard will likely extend to a depth of approximately 8 feet below grade for construction of the buildings cellar levels and foundations. Assuming an excavation volume of approximately 25 feet (wide) by 100 feet (length) and 8 feet (deep), a total of approximately 750 cubic yards (1,100 tons) of soil will require excavation. The slab and rear cellar level court yard for building will be capped with a 18-inch layer of concrete.

The remedial action contemplated under this RAWP may be implemented independently of the proposed redevelopment plan.

### 1.3 Description of Surrounding Property

The area surrounding the Site consists of a mix of residential and industrial properties. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. No hospitals, daycare facilities or schools are located within a 250 ft radius of the Site.

**Surrounding Property Usage**

<b>Direction</b>	<b>Property Description</b>
<b>North</b> – Adjacent property	<u>Block 2266, Lots 30, 31 and 32</u> (74-76 Throop Avenue) – Lots 30 and 31 are developed with 1-story industrial buildings. Lot 32 is a vacant uncapped lot.
<b>South</b> – Opposite side of Gerry Street	<u>Block 2269, Lot 27</u> (84 Throop Avenue) – A 25ft by 70ft lot located on the corner of Throop Avenue and Gerry Street. The lot is undeveloped, vacant and uncapped.
<b>East</b> – Opposite side of Throop Avenue	<u>Block 2267, Lot 7501</u> (133 Gerry Street) – Developed with 4-story mixed residential and commercial building.
<b>West</b> – Adjacent property	<u>Block 2266, Lot 36</u> (99 Gerry Street) – A 25ft by 100ft lot located that fronts Gerry Street. The lot is undeveloped, vacant and uncapped.

### 1.4 Remedial Investigation

A remedial investigation was performed and the results are documented in a companion document called “*Remedial Investigation Report, 82 Throop Avenue, Brooklyn, New York,*” dated June 2013 (RIR).

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

EBC was able to establish a history for the property dating back to 1887. According to a review of NYC records, City Directory Listings and historic Sanborn maps, the Site was developed with a two small residential structures prior to 1887. Between 1887 and 1904, one of the small residential buildings was replaced with a 4-story apartment building with a first floor store and the small residential building behind the 4-story apartment building converted the first floor space into two small stores. The 1st floor of the 4-story apartment building was utilized as a grocery store from the 1940's to the 1970's. In the early 1980's, the both buildings were demolished. The Site has remained undeveloped since, but the property was used for lumber storage until approximately 2003. The Site appears to have been unused since 2003.

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths as great as 3 feet below grade.

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

Throop Wallabout Realty, LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed three soil borings across the entire project Site, and collected six soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and
4. Installed three soil vapor probes across the Site and collected three samples for chemical analysis.

### **Summary of Environmental Findings**

1. Elevation of the property ranges from 24 to 25 feet.
2. Depth to groundwater ranges from 10.03 to 12.34 feet at the Site.
3. Groundwater flow is generally from south to north beneath the Site.

4. Depth to bedrock is at the Site is greater than 100 feet.
5. The stratigraphy of the Site, from the surface down, consists of 3 feet of historic fill underlain by a native brown silty sand.
6. Soil/fill samples collected during the RI showed no detectable concentrations of VOCs. Six SVOCs including benzo(a)anthracene (max. of 3,300 µg/Kg), benzo(a)pyrene (max. of 2,900 µg/Kg), benzo(b)fluoranthene (max. of 4,300 µg/Kg), benzo-(k)fluoranthene (max. of 1,600 µg/Kg), chrysene (max. of 3,500 µg/Kg), and indeno(1,2,3-cd)pyrene (max. of 1,100 µg/Kg) were detected above their respective Restricted Residential SCOs within all shallow soil samples. The SVOCs detected above Unrestricted/Restricted Residential SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Three pesticides 4,4'-DDE (34 µg/Kg), 4,4'-DDT (max. of 140 µg/Kg), and dieldrin (11 µg/Kg) were detected above Unrestricted Use SCOs. One pesticide, 4,4'-DDD (3.6 µg/Kg), was detected in one deep soil sample (SB2). All pesticide concentrations were well below Restricted Residential SCOs. One PCB, PCB-1260, was detected above Unrestricted Use SCOs at a maximum concentration of 130 µg/Kg. Five metals including barium (max. of 642 µg/Kg), copper (max. of 97.7 µg/Kg), lead (max. of 967 µg/Kg), mercury (max. of 1.15 µg/Kg) and zinc (max. of 537 µg/Kg) exceeded Unrestricted Use SCOs in all three shallow soil samples. Of these metals, barium, lead, and mercury also exceeded Restricted Residential SCOs. Zinc was detected in one deep soil sample, above Unrestricted Use SCOs at a concentration of 190 µg/Kg. No VOCs, SVOCs, PCBs, or pesticides were detected above Unrestricted Use SCOs within the deep soil samples collected at the Site. Overall, the findings were unremarkable and consistent with observations for historical fill sites in areas throughout NYC.
7. Groundwater samples collected during the RI showed the presence of three VOCs above GQSs within one of the monitoring wells and included cis-1,2-dichloroethene (350 µg/L), tetrachloroethene (21 µg/L), and trichloroethene (31 µg/L). No VOCs were identified in any of the soil samples collected on Site and are not associated with known historical uses of the property. Several SVOCs were detected in one or more of the three monitoring wells, but only five of the SVOCs including benzo(a)anthracene, benzo(b)fluoranthene, benzo-(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene

were detected at a concentration above GQS. One pesticide, 4,4'-DDT, was detected slightly above GQS at a concentration of 0.15 µg/L. PCBs were not detected. The metals including iron, lead (36 µg/L), magnesium, manganese, and sodium were detected above their respective GQS in one or more dissolved groundwater samples.

8. Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at low to moderate concentrations. Tetrachloroethylene (max. of 2.17 µg/m<sup>3</sup>), trichloroethylene (max. of 1.88 µg/m<sup>3</sup>), and carbon tetrachloride (max. of 0.566 µg/m<sup>3</sup>) were detected in all three soil vapor samples. 1,1,1-trichloroethane was detected in one of the three samples at a concentration of 1.14 µg/m<sup>3</sup>. The PCE, TCE, carbon tetrachloride, and 1,1,1-TCA concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Overall the highest reported concentrations were for acetone (maximum of 2,610 µg/m<sup>3</sup>) and ethanol (maximum of 1,520 µg/m<sup>3</sup>).

For more detailed results, consult the RIR. Based on an evaluation of the data and information from the RIR and this RAWP, disposal of significant amounts of hazardous waste is not suspected at this site.

## 2.0 REMEDIAL ACTION OBJECTIVES

Based on the results of the RI, the following Remedial Action Objectives (RAOs) have been identified for this Site:

### Groundwater

- Remove contaminant sources causing impact to groundwater.
- Prevent direct exposure to contaminated groundwater.
- Prevent exposure to contaminants volatilizing from contaminated groundwater.

### Soil

- Prevent direct contact with contaminated soil.
- Prevent exposure to contaminants volatilizing from contaminated soil.
- Prevent migration of contaminants that would result in groundwater contamination.

### Soil Vapor

- Prevent exposure to contaminants in soil vapor.
- Prevent migration of soil vapor into dwelling and other occupied structures.

### **3.0 REMEDIAL ALTERNATIVES ANALYSIS**

The goal of the remedy selection process under is to select a remedy that is protective of human health and the environment taking into consideration the current, intended and reasonably anticipated future use of the property. The remedy selection process begins by establishing RAOs for media in which chemical constituents were found in exceedence of applicable standards, criteria and guidance values (SCGs). A remedy is the n developed based on the following ten criteria:

- Protection of human health and the environment;
- Compliance with SCGs;
- Short-term effectiveness and impacts;
- Long-term effectiveness and permanence;
- Reduction of toxicity, mobility, or volume of contaminated material;
- Implementability;
- Cost effectiveness;
- Community Acceptance;
- Land use; and
- Sustainability.

The following is a detailed description of the alternatives analysis and remedy selection to address impacted media at the Site. As required, a minimum of two remedial alternatives (including a Track 1 scenario) are evaluated, as follows:

#### **Alternative 1 involves**

- Establishment of NYSDEC Part 375 Track 1 Unrestricted Use Soil Cleanup Objectives (SCOs).
- Removal of all soil/fill exceeding Unrestricted Use SCOs throughout the Site and confirmation that Unrestricted Use SCOs have been achieved with post-excavation endpoint sampling. Based on the results of the Remedial Investigation, it is expected that this alternative would require excavation to a minimum depth of approximately 3 feet to remove all historic fill. Excavation for construction of the cellar would take place to a depth of approximately 8 feet to construct the new building's cellar level. However, if

soil/fill containing analytes at concentrations above Unrestricted Use SCOs is still present at the base of the excavation after removal of all soil required for construction of the new building's cellar level and rear courtyard is complete, additional excavation will be performed to ensure complete removal of soil that does not meet Track 1 Unrestricted Use SCOs.

- No Engineering or Institutional Controls are required for a Track 1 cleanup, but a vapor barrier/waterproof membrane would be installed beneath the basement foundation and behind foundation sidewalls of the new building as a part of development to prevent any potential future exposures from off-Site soil vapor.
- As part of development, placement of a final cover over the entire Site.

**Alternative 2 involves:**

- Establishment of Track 4 Site-Specific SCOs;
- Removal of all soil/fill exceeding Track 4 Site-Specific SCOs and confirmation that Track 4 has been achieved with post-excavation endpoint sampling. Excavation for construction of the cellar and rear courtyard would take place to a depth of approximately 8 feet for the entire Site, which would effectively remove all historic fill at the Site. However, if soil/ fill containing VOCs, pesticides, SVOCs or metals at concentrations above Track 4 Site-Specific SCOs is still present at the base of the excavation after removal of all soil required for construction of the new building is complete, additional excavation will be performed to meet Track 4 Site-Specific SCOs;
- Placement of a final cover over the entire Site to prevent exposure to remaining soil/fill;
- Installation of a soil vapor barrier beneath the building slab and along foundation side walls to prevent any potential future exposures from off-Site soil vapor;
- Establishment of use restrictions including prohibitions on the use of groundwater from the Site; prohibitions of sensitive Site uses, such as farming or vegetable gardening, to prevent future exposure pathways; and prohibition of a higher level of land use without OER approval;
- Establishment of an approved Site Management Plan to ensure long-term management of these Engineering and Institutional Controls including the performance of periodic inspections and certification that the controls are performing as they were intended; and

- Continued registration as an E-designated property to memorialize the remedial action and the Engineering and Institutional Controls required by this RAWP.

### **3.1 Threshold Criteria**

#### **Protection of Public Health and the Environment**

This criterion is an evaluation of the remedy's ability to protect public health and the environment, and an assessment of how risks posed through each existing or potential pathway of exposure are eliminated, reduced or controlled through removal, treatment, and implementation of Engineering Controls or Institutional Controls. Protection of public health and the environment must be achieved for all approved remedial actions.

Alternative 1 would be protective of human health and the environment by removing contaminated soil/fill exceeding Track 1 SCOs and groundwater protection standards, thus eliminating potential for direct contact with contaminated soil/fill once construction is complete and eliminating the risk of contamination leaching into groundwater.

Alternative 2 would achieve comparable protections of human health and the environment by excavating the historic fill at the Site and by ensuring that remaining soil/fill on-Site meets Track 4 Site-Specific SCOs, as well as by placement of Institutional and Engineering controls, including a composite cover system. The composite cover system would prevent direct contact with any remaining on-Site soil/fill. Implementing Institutional Controls including a Site Management Plan would ensure that the composite cover system remains intact and protective. Establishment of Track 4 Site-Specific SCOs would minimize the risk of contamination leaching into groundwater.

For both Alternatives, potential exposure to contaminated soils or groundwater during construction would be minimized by implementing a Construction Health and Safety Plan, an approved Soil/Materials Management Plan and Community Air Monitoring Plan (CAMP). Potential use of groundwater for potable supply would be prevented as its use is prohibited by city laws and regulations. Potential future migration of off-Site soil vapors into the new building would be prevented by installing a vapor barrier below the new building's basement slab and continuing the vapor barrier around foundation walls.

### **3.2. Balancing Criteria**

#### **Compliance with Standards, Criteria and Guidance (SCGs)**

This evaluation criterion assesses the ability of the alternative to achieve applicable standards, criteria and guidance.

Alternative 1 would achieve compliance with the remedial goals, SCGs and RAOs for soil through removal of soil to achieve Track 1 Unrestricted Use SCOs and groundwater protection standards. Management of potential future off-site soil vapors would also be achieved by installing a vapor barrier below the new building's basement slab and continuing the vapor barrier around foundation walls, as part of development.

Alternative 2 would achieve compliance with the remedial goals, SCGs and RAOs for soil through removal of soil to meet Track 4 Site-Specific SCOs. Compliance with SCGs for soil vapor would also be achieved by installing a vapor barrier below the new building's basement slab and continuing the vapor barrier around foundation walls. A Site Management Plan would ensure that these controls remained protective for the long term.

Health and safety measures contained in the CHASP and Community Air Monitoring Plan (CAMP) that comply with the applicable SCGs shall be implemented during Site redevelopment under this RAWP. For both Alternatives, focused attention on means and methods employed during the remedial action would ensure that handling and management of contaminated material would be in compliance with applicable SCGs. These measures will protect on-site workers and the surrounding community from exposure to Site-related contaminants.

#### **Short-term effectiveness and impacts**

This evaluation criterion assesses the effects of the alternative during the construction and implementation phase until remedial action objectives are met. Under this criterion, alternatives are evaluated with respect to their effects on public health and the environment during implementation of the remedial action, including protection of the community, environmental impacts, time until remedial response objectives are achieved, and protection of workers during remedial actions.

Both Alternative 1 and Alternative 2 have similar short-term effectiveness during their respective implementations, as each requires excavation of historic fill material. Both alternatives would result in short-term dust generation impacts associated with excavation, handling, load out of materials, and truck traffic. Short term impacts could potentially be higher for Alternative 1 if excavation of greater amounts of historical fill material is encountered below the excavation depth of the proposed building. However, focused attention to means and methods during the remedial action during a Track 1 removal action, including community air monitoring and appropriate truck routing, would minimize or negate the overall impact of these.

An additional short-term adverse impact and risks to the community associated with both remedial alternatives is increased truck traffic. Approximately 30, 25-ton capacity truck trips would be necessary to transport fill and soil excavated during Site development. Truck traffic will be routed on the most direct course using major thoroughfares where possible and flaggers will be used to protect pedestrians at Site entrances and exits.

The effects of these potential adverse impacts to the community, workers and the environment will be minimized through implementation of corresponding control plans including a Construction Health and Safety Plan, a Community Air Monitoring Plan (CAMP) and a Soil/Materials Management Plan (SMMP), during all on-Site soil disturbance activities and would minimize the release of contaminants into the environment. Both alternatives provide short term effectiveness in protecting the surrounding community by decreasing the risk of contact with on-Site contaminants. Construction workers operating under appropriate management procedures and a Construction Health and Safety Plan (CHASP) will be protected from on-Site contaminants (personal protective equipment would be worn consistent with the documented risks within the respective work zones).

### **Long-term effectiveness and permanence**

This evaluation criterion addresses the results of a remedial action in terms of its permanence and quantity/nature of waste or residual contamination remaining at the Site after response objectives have been met, such as permanence of the remedial alternative, magnitude of remaining contamination, adequacy of controls including the adequacy and suitability of ECs/ICs that may be used to manage contaminant residuals that remain at the Site and assessment of

containment systems and ICs that are designed to eliminate exposures to contaminants, and long-term reliability of Engineering Controls.

Alternative 1 would achieve long-term effectiveness and permanence related to on-Site contamination by permanently removing all impacted soil/fill and enabling unrestricted usage of the property.

Alternative 2 would provide long-term effectiveness by removing most on-Site contamination and attaining Track 4 Site-Specific SCOs; a composite cover system across the Site, maintaining use restrictions, establishing an SMP to ensure long-term management of Institutional Controls (ICs) Engineering Controls (ECs), and maintaining continued registration as an E-designated property to memorialize these controls for the long term. The SMP would ensure long-term effectiveness of all ECs and ICs by requiring periodic inspection and certification that these controls and restrictions continue to be in place and are functioning as they were intended assuring that protections designed into the remedy will provide continued high level of protection in perpetuity.

Both alternatives would result in removal of soil contamination exceeding the SCOs providing the highest level, most effective, and permanent remedy over the long-term with respect to a remedy for contaminated soil, which will eliminate any migration to groundwater. Potential sources of soil vapor and groundwater contamination will also be eliminated as part of the remedy.

### **Reduction of toxicity, mobility, or volume of contaminated material**

This evaluation criterion assesses the remedial alternative's use of remedial technologies that permanently and significantly reduce toxicity, mobility, or volume of contaminants as their principal element. The following is the hierarchy of source removal and control measures that are to be used to remediate a Site, ranked from most preferable to least preferable: removal and/or treatment, containment, elimination of exposure and treatment of source at the point of exposure. It is preferred to use treatment or removal to eliminate contaminants at a Site, reduce the total mass of toxic contaminants, cause irreversible reduction in contaminants mobility, or reduce of total volume of contaminated media.

Alternative 1 will permanently eliminate the toxicity, mobility, and volume of contaminants from on-Site soil by removing all soil in excess of Track 1 - Unrestricted Use SCOs.

Alternative 2 would likely remove all of the historic fill at the Site, and any remaining on-Site soil beneath the new building will meet Track 4 - Site-Specific SCOs. Alternative 1 could potentially eliminate a greater total mass of contaminants on Site.

### **Implementability**

This evaluation criterion addresses the technical and administrative feasibility of implementing an alternative and the availability of various services and materials required during its implementation, including technical feasibility of construction and operation, reliability of the selected technology, ease of undertaking remedial action, monitoring considerations, administrative feasibility (e.g. obtaining permits for remedial activities), and availability of services and materials.

The techniques, materials and equipment to implement Alternatives 1 and 2 are readily available and have been proven effective in remediating the contaminants associated with the Site. They use standard materials and services that are well established technology. The reliability of each remedy is also high. There are no special difficulties associated with any of the activities proposed.

### **Cost effectiveness**

This evaluation criterion addresses the cost of alternatives, including capital costs (such as construction costs, equipment costs, and disposal costs, engineering expenses) and site management costs (costs incurred after remedial construction is complete) necessary to ensure the continued effectiveness of a remedial action.

Since historic fill at the Site was found during the RI to only extend to a depth of three feet, and the new building requires excavation of the entire Site to a depth of 8 ft, the costs associated with both Alternative 1 and Alternative 2 would likely be the same. If additional soil/fill with analytes above Track 1 Unrestricted Use SCOs but below Track 4 Site-Specific SCOs remains after excavation for the new building, long-term costs for Alternative 2 would likely be higher than Alternative 1 based on implementation of a Site Management Plan as part of Alternative 2.

## **Community Acceptance**

This evaluation criterion addresses community opinion and support for the remedial action.

Observations here will be supplemented by public comment received on the RAWP. This RAWP will be subject to a public review under the NYC VCP and will provide the opportunity for detailed public input on the remedial alternatives and the selected remedy. This public comment will be considered by OER prior to approval of this plan. The Citizen Participation Plan for the project is provided in Attachment B.

## **Land use**

This evaluation criterion addresses the proposed use of the property. This evaluation has considered reasonably anticipated future uses of the Site and takes into account: current use and historical and/or recent development patterns; applicable zoning laws and maps; NYS Department of State's Brownfield Opportunity Areas (BOA) pursuant to section 970-r of the general municipal law; applicable land use plans; proximity to real property currently used for residential use, and to commercial, industrial, agricultural, and/or recreational areas; environmental justice impacts, Federal or State land use designations; population growth patterns and projections; accessibility to existing infrastructure; proximity of the site to important cultural resources and natural resources, potential vulnerability of groundwater to contamination that might emanate from the site, proximity to flood plains, geography and geology; and current Institutional Controls applicable to the site.

The proposed redevelopment of the Site is compatible with its current zoning and is consistent with recent development patterns. Following remediation, the Site will meet either Track 1 Unrestricted Use or Track 4 Site-Specific SCOs, both of which are appropriate for its planned residential use. Improvements in the current environmental condition of the property achieved by both alternatives are also consistent with the City's goals for cleanup of contaminated land and bringing such properties into productive reuse. Both alternatives are equally protective of natural resources and cultural resources.

## **Sustainability of the Remedial Action**

This criterion evaluates the overall sustainability of the remedial action alternatives and the degree to which sustainable means are employed to implement the remedial action including

those that take into consideration NYC's sustainability goals defined in *PlaNYC: A Greener, Greater New York*. Sustainability goals may include: maximizing the recycling and reuse of non-virgin materials; reducing the consumption of virgin and non-renewable resources; minimizing energy consumption and greenhouse gas emissions; improving energy efficiency; and promotion of the use of native vegetation and enhancing biodiversity during landscaping associated with Site development.

While Alternative 2 would potentially result in lower energy usage based on reducing the volume of material transported off-Site, both remedial alternatives are comparable with respect to the opportunity to achieve sustainable remedial action. The remedial plan would take into consideration the shortest trucking routes during off-Site disposal of historic fill and other soils, which would reduce greenhouse gas emissions and conserve energy used to fuel trucks. New York City Clean Soil Bank program may be utilized for reuse of native soils. To the extent practicable, energy efficient building materials, appliances, and equipment will be utilized to complete the development. A complete list of green remedial activities considered as part of the NYC VCP is included in the Sustainability Statement, included as Appendix D.

## **4.0 REMEDIAL ACTION**

### **4.1 Summary of Preferred Remedial Action**

The preferred remedial action alternative is the Track 1 Alternative. The preferred remedial action alternative achieves protection of public health and the environment for the intended use of the property. The preferred remedial action alternative will achieve all of the remedial action objectives established for the project and addresses applicable SCGs. The preferred remedial action alternative is effective in both the short-term and long-term and reduces mobility, toxicity and volume of contaminants. The preferred remedial action alternative is cost effective and implementable and uses standards methods that are well established in the industry.

The proposed remedial action will consist of:

1. Preparation of a Community Protection Statement and implementation of all required NYC VCP Citizen Participation activities according to an approved Citizen Participation Plan;
2. Performance of a Community Air Monitoring Program for particulates and volatile organic carbon compounds;
3. Establishment of Track 1 Unrestricted Use Soil Cleanup Objectives (SCOs);
4. Site mobilization involving Site security setup, equipment mobilization, utility mark outs and marking & staking excavation areas;
5. Excavation and removal of soil/fill exceeding Track 1 Unrestricted Use SCOs. For development purposes, the entire property will be excavated to a depth of 8 feet;
6. Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID. Appropriate segregation of excavated media on-Site;
7. Removal of underground storage tanks (if encountered) and closure of petroleum spills (if evidence of a spill/leak is encountered during Site excavation) in compliance with applicable local, State and Federal laws and regulations;
8. Transportation and off-Site disposal of all soil/fill material (estimated 750 tons) at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Sampling and analysis of excavated media as required by disposal facilities;

9. Collection and analysis of end-point samples to determine the performance of the remedy with respect to attainment of SCOs;
10. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations;
11. As part of development, installation of a vapor barrier below the basement concrete slab and behind the foundation walls of the proposed building;
12. As part of development, construction and maintenance of an engineered composite cover consisting of an 18-inche thick concrete basement slab;
13. Implementation of storm-water pollution prevention measures in compliance with applicable laws and regulations;
14. Performance of all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations;
15. Submission of a Remedial Action Report (RAR) that describes the remedial activities, certifies that the remedial requirements have been achieved, defines the Site boundaries, lists any changes from this RAWP, and, if Track 1 SCOs are not achieved, describes all Engineering and Institutional Controls to be implemented at the Site;
16. If Track 1 is not achieved, submission of an approved Site Management Plan (SMP) in the RAR for long-term management of residual contamination, including plans for maintenance, monitoring, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency; and
17. If Track 1 is not achieved, the property will continue to be flagged with an E-Designation by the NYC Buildings Department. Establishment of Engineering Controls and Institutional Controls in this RAWP and a requirement that management of these controls must be in compliance with an approved SMP. Institutional Controls will include prohibition of the following: (1) vegetable gardening and farming; (2) use of groundwater without treatment rendering it safe for the intended use; (3) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (4) higher level of land usage without OER-approval.

## 4.2 Soil Cleanup Objectives and Soil/Fill Management

Track 1 Soil Cleanup Objectives (SCOs) are proposed for this project. The SCOs for this Site are listed in Table 1.

If Track 1 is not achieved, the following Track 4 Site-Specific SCOs will be used:

<u>Contaminant</u>	<u>Track 4 SCOs</u>
Total SVOCs	250 ppm
Lead	1,000 ppm
Mercury	2.5 ppm

Soil and materials management on-Site and off-Site, including excavation, handling and disposal, will be conducted in accordance with the Soil/Materials Management Plan in Attachment D. Soil and fill management at the Site will include impacted soil removal and disposal within the development cut. Excavation areas are shown on Figure 5. No over-excavation beyond the development cut is anticipated. If any hot-spot areas are identified during development and remediation at the site, they will be removed to the extent practical. The location of planned excavations is shown in Figure 5.

Discrete contaminant sources (such as hotspots) identified during the remedial action will be identified by GPS or surveyed. This information will be provided in the Remedial Action Report.

### Estimated Soil/Fill Removal Quantities

The total quantity of soil/fill expected to be excavated and disposed off-Site is 750 tons.

Disposal location(s) will be reported promptly to the OER Project Manager prior to the start of the remedial action.

### End-Point Sampling

Removal actions under this plan will be performed in conjunction with confirmation sampling. The RI provided endpoint data that met Track 1 - Unrestricted Use SCOs at the 8 to 10 feet interval. However, additional post-excavation end-point sampling and testing will be performed promptly following materials removal and completed prior to Site development activities. To evaluate attainment of Track 1 - Unrestricted Use SCOs, samples will be collected and analyzed

for VOCs, SVOCs, pesticides and TAL Metals. The approximate collection location of the endpoint soil samples is shown on Figure 6.

In addition, if hotspots are encountered, hotspot removal end-point sampling frequency will consist of the following:

1. For excavations less than 20 feet in total perimeter, at least one bottom sample and one sidewall sample biased in the direction of surface runoff.
2. For excavations 20 to 300 feet in perimeter:
  - For surface removals, one sample from the top of each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.
  - For subsurface removals, one sample from each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.
3. For sampling of volatile organics, bottom samples should be taken within 24 hours of excavation, and should be taken from the zero to six-inch interval at the excavation floor. Samples taken after 24 hours should be taken at six to twelve inches.
4. For contaminated soil removal, post remediation soil samples for laboratory analysis should be taken immediately after contaminated soil removal. If the excavation is enlarged horizontally, additional soil samples will be taken pursuant to bullets 1-3 above.

Post-remediation sample locations and depth will be biased towards the areas and depths of highest contamination identified during previous sampling episodes unless field indicators such as field instrument measurements or visual contamination identified during the remedial action indicate that other locations and depths may be more heavily contaminated. In all cases, post-remediation samples should be biased toward locations and depths of the highest expected contamination.

New York State ELAP certified labs will be used for all end-point sample analyses. Labs for end-point sample analyses will be reported in the RAR. The RAR will provide a tabular and map summary of all end-point sample results and will include all data including non-detects and

applicable standards and/or guidance values. End-point samples will be analyzed for trigger analytes (those for which SCO exceedance is identified) utilizing the following methodology:

Soil analytical methods will include:

- Volatile organic compounds by EPA Method 8260;
- Semi-volatile organic compounds by EPA Method 8270;
- Target Analyte List metals; and
- Pesticides/PCBs by EPA Method 8081/8082.

Endpoint samples collected for confirmation of Track 1 Unrestricted Use SCOs will include the full suite of analysis. If either LNAPL and/or DNAPL are detected, appropriate samples will be collected for characterization and required regulatory reporting (i.e. spills hotline) will be performed.

### **Quality Assurance/Quality Control**

The fundamental QA objective with respect to accuracy, precision, and sensitivity of analysis for laboratory analytical data is to achieve the QC acceptance of the analytical protocol. The accuracy, precision and completeness requirements will be addressed by the laboratory for all data generated.

Collected samples will be appropriately packaged, placed in coolers and shipped via overnight courier or delivered directly to the analytical laboratory by field personnel. Samples will be containerized in appropriate laboratory provided glassware and shipped in plastic coolers. Samples will be preserved through the use of ice or “cold-paks” to maintain a temperature of 4°C.

Dedicated disposable sampling materials will be used for the collection endpoint samples, eliminating the need to prepare field equipment (rinsate) blanks. However, if non-disposable equipment is used, (stainless steel scoop, etc.) field rinsate blanks will be prepared at the rate of 1 for every eight samples collected. Decontamination of non-dedicated sampling equipment will consist of the following:

- Gently tap or scrape to remove adhered soil

- Rinse with tap water
- Wash withalconox® detergent solution and scrub
- Rinse with tap water
- Rinse with distilled or deionized water

Prepare field blanks by pouring distilled or deionized water over decontaminated equipment and collecting the water in laboratory provided containers. Trip blanks will be used whenever samples are transported to the laboratory for analysis of VOCs. Trip blanks will not be used for samples to be analyzed for metals, SVOCs or pesticides. One blind duplicate sample will be prepared and submitted for analysis every 20 samples.

### **Import and Reuse of Soils**

Import of soils onto the property and reuse of soils already on-Site will be performed in conformance with the Soil/Materials Management Plan in Attachment D. The estimated quantity of soil to be imported into the Site for backfill and cover soil is 0 tons. The estimated quantity of on-Site soil/fill expected to be reused/relocated on Site is 0 tons.

### **4.3 Engineering Controls**

The excavation required for the proposed Site development will achieve Track 1 Unrestricted Use SCOs. No Engineering Controls are required to address residual contamination at the Site. However, the following features will be incorporated into the foundation design as part of the development: composite cover system and soil vapor barrier. If Track 1 is not achieved, these two elements will constitute Engineering Controls that will be employed in the remedial action to address residual contamination remaining at the Site.

#### **Composite Cover System**

Exposure to residual soil/fill will be prevented by an engineered, permanent composite cover system to be built on the Site. This composite cover system will be comprised of 18 inch thick concrete-building slab beneath the area of the proposed building and will act as permanent engineering control for the Site.

If a Track 1 SCOs are not achieved at the Site, the composite cover system will be a permanent engineering control. The system will be inspected and reported at specified intervals as required

by this RAWP and the SMP. A Soil Management Plan will be included in the Site Management Plan and will outline the procedures to be followed in the event that the composite cover system and underlying residual soil/fill is disturbed after the remedial action is complete. Maintenance of this composite cover system will be described in the Site Management Plan in the RAR.

### **Vapor Barrier**

As part of development, migration of potential soil vapor from offsite in the future will be achieved with a combination of building slab and vapor barrier. The vapor barrier will consist of Raven Industries' VaporBlock 20 Plus, which is a seven layer co-extruded barrier made from state-of-the-art polyethylene and EVOH resins. The vapor barrier will be installed prior to pouring the building's concrete slab. The vapor barrier will extend throughout the area occupied by the footprint of the new building and up the foundation sidewalls in accordance with manufacturer specifications. The specifications for installation will be provided to the construction management company and the foundation contractor or installer of the liner. The specifications state that all vapor barrier seams, penetrations, and repairs will be sealed either by the tape method or weld method, according to the manufacturer's recommendations and instructions.

The project's Professional Engineer licensed by the State of New York will have primary direct responsibility for overseeing the implementation of the vapor barrier. The extent of the proposed vapor barrier membrane is provided in Figure 8. Installation details (penetrations, joints, etc.) with respect to the proposed building foundation, footings, slab, and sidewalls are provided in Figure 8. Product specification sheets are provided in Attachment E. The Remedial Action Report will include photographs (maximum of two photos per page) of the installation process, PE/RA certified letter (on company letterhead) from primary contractor responsible for installation oversight and field inspections, and a copy of the manufacturer's certificate of warranty.

### **4.4 Institutional Controls**

Institutional Controls are not required on sites that achieve Track 1 Remedial Action. If Track 1 SCOs are not achieved, Institutional Controls (IC) will be utilized in this remedial action to manage residual soil/fill and other media and render the Site protective of public health and the

environment. Institutional Controls are listed below. Long-term employment of EC/ICs will be implemented under a site-specific Site Management Plan (SMP) that will be included in the RAR. The property will continue to be registered with an E-Designation by the NYC Buildings Department.

Institutional Controls for this remedial action are:

- The property will continue to be registered with an E-Designation by the NYC Buildings Department. This RAWP includes a description of all ECs and ICs and summarizes the requirements of the Site Management Plan which will note that the property owner and property owner's successors and assigns must comply with the approved SMP;
- Submittal of a Site Management Plan in the RAR for approval by OER that provides procedures for appropriate operation, maintenance, inspection and certification of ECs and ICs. SMP will require that the property owner and property owner's successors and assigns will submit to OER a periodic written statement that certifies that: (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by OER; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. OER retains the right to enter the Site in order to evaluate the continued maintenance of any controls. This certification shall be submitted annually and will comply with RCNY §43-1407(1)(3).
- Vegetable gardens and farming on the Site are prohibited;
- Use of groundwater underlying the Site is prohibited without treatment rendering it safe for its intended use;
- All future activities on the Site that will disturb residual material must be conducted pursuant to the soil management provisions in an approved SMP;
- The Site will be used for residential use and will not be used for a higher level of use without prior approval by OER.

#### **4.5 Site Management Plan**

Site Management is not required for sites that achieve Track 1 Remedial Action. However, if Track 1 Unrestricted Use SCOs are not achieved, Site Management will be the last phase of remediation and begins with the approval of the Remedial Action Report and issuance of the

Notice of Completion (NOC) for the Remedial Action. The Site Management Plan (SMP) describes appropriate methods and procedures to ensure implementation of all ECs and ICs that are required by the DCR and this RAWP. The Site Management Plan is submitted as part of the RAR but will be written in a manner that allows its use as an independent document. Site Management continues until terminated in writing by OER. The property owner is responsible to ensure that all Site Management responsibilities defined in the DCR and the Site Management Plan are implemented.

The SMP will provide a detailed description of the procedures required to manage residual soil/fill left in place following completion of the remedial action in accordance with the Voluntary Cleanup Agreement with OER. This includes a plan for: (1) implementation of EC's and ICs; (2) operation and maintenance of EC's; (3) inspection and certification of EC's.

Site management activities, reporting, and EC/IC certification will be scheduled on periodic basis to be established in the SMP and will be subject to review and modification by OER. The Site Management Plan will be based on a calendar year and certification reports will be due for submission to OER by July 30 of the year following the reporting period.

#### **4.6 Qualitative Human Health Exposure Assessment**

The objective of the qualitative exposure assessment is to identify potential receptors to the contaminants of concern (COC) that are present at, or migrating from, the Site. The identification of exposure pathways describes the route that the COC takes to travel from the source to the receptor. An identified pathway indicates that the potential for exposure exists; it does not imply that exposures actually occur.

Investigations reported in the Remedial Investigation Report (RIR) are sufficient to complete a Qualitative Human Health Exposure Assessment (QHHEA). As part of the VCP process, a QHHEA was performed to determine whether the Site poses an existing or future health hazard to the Site's exposed or potentially exposed population. The sampling data from the RI were evaluated to determine whether there is any health risk by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport. This QHHEA was prepared in accordance with Appendix 3B and Section 3.3 (b) 8 of the NYSDEC Draft DER-10

## Technical Guidance for Site Investigation and Remediation.

### **Known and Potential Sources**

Based on the results of the Remedial Investigation Report, historic fill was encountered at the Site only to a depth of approximately 3 feet. The following contaminants of concern were detected within the historic fill:

#### Soil

- Barium, lead and mercury exceeding Track 2 Restricted Residential SCOs;
- SVOCs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)-fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene exceeding Track 2 Restricted Residential SCO; and
- Pesticides including chlordane and 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and Dieldrin reported but were well below Track 2 Restricted Residential SCOs.

#### Groundwater

- Chlorinated VOCs including cis-1,2-dichloroethene, tetrachloroethene, trichloroethene exceeding GQS;
- SVOCs including benzo(a)anthracene, benzo(b)fluoranthene, benzo-(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were detected above GQS; and
- Metals including iron, lead, magnesium, manganese, and sodium exceeding GQS.

#### Soil vapor

- Chlorinated VOCs including carbon tetrachloride, TCA, TCE and PCE detected at trace concentrations and below NYS DOH monitoring thresholds;
- Petroleum VOCs detected at trace concentrations including benzene, toluene, ethylbenzene and xylene; and
- Acetone and ethanol detected at elevated levels.

### **Nature, Extent, Fate and Transport of Contaminants**

The information compiled during previous investigations has confirmed the presence of contaminated fill material from surface grade to an approximate depth of 3 feet bgs. SVOCs,

pesticides and metals are present in the historic fill materials throughout the Site. Metal and SVOC contaminants found in soil were also detected in the groundwater samples at concentrations above their respective GQSs. Concentrations of dissolved metals in the groundwater were significantly lower than the total levels of metals in groundwater. The trace levels of petroleum and chlorinated VOCs identified in the soil vapor were well below guidance issued by New York State DOH and were not found in any of the on-Site soil samples collected.

### **Receptor Populations**

On-Site Receptors – The Site is undeveloped and unused. The Site is uncapped and overgrown with weeds. Potential on-Site receptors are limited to Site representatives and trespassers and site representatives and visitors granted access to the property. During redevelopment of the Site, the on-Site potential receptors will include construction workers, Site representatives, and visitors. Once the Site is redeveloped, the on-Site potential sensitive receptors will include adult and child building residents, workers and visitors.

Off-Site Receptors - Potential off-Site receptors within a 0.25-mile radius of the Site include: adult and child residents, and commercial and construction workers, pedestrians, trespassers, and cyclists, based on the following:

1. Commercial Businesses (up to 0.25 mile) – existing and future
2. Residential Buildings (up to 0.25 mile) – existing and future
3. Building Construction/Renovation (up to 0.25 mile) – existing and future
4. Pedestrians, Trespassers, Cyclists (up to .25 mile) – existing and future
5. Schools (up to .25 mile) – existing and future

### **Potential Routes of Exposure**

The five elements of an exposure pathway are:

- 1) The source of contamination
- 2) The environmental media and transport mechanisms - direct contact, ingestion, and inhalation;
- 3) The point of exposure;
- 4) The route of exposure;

5) The receptor population.

An exposure pathway is considered complete when all five elements of an exposure pathway are documented. A potential pathway exists when any one or more of the five elements comprising an exposure pathway cannot be determined. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway has not existed in the past, does not exist in the present, and will never exist in the future. Three potential primary routes exist by which chemicals can enter the body:

- Ingestion of water, fill, or soil;
- Inhalation of vapors and particulates; and
- Dermal contact with water, fill, or soil.

The work performed at the Site will include excavation of soil/fill material, and general construction activities. The construction and remediation work at the Site will expose the contaminants to the on-Site workers in a variety of ways listed above. These exposures will be limited to short durations through the intrusive work. A Construction Health and Safety Plan (CHASP) will be implemented during remediation work for the safety of on-Site workers and off-Site local population. Upon completion of the remedial activities, the Site will achieve Track 1 Unrestricted Use SCOs and the Site will be covered by the engineered composite cover (i.e., building slab and vapor/moisture barrier). This will prevent direct exposure to humans from any off-Site contamination.

### **Existence of Human Health Exposure**

Existing: The potential for exposure to surficial historic fill exists under current conditions because the Site is uncapped and accessible. Access to the property includes owner representatives, and trespassers. Groundwater is marginally contaminated but is not exposed at the Site, and because the Site is served by the public water supply and groundwater use for potable supply is prohibited, groundwater is not used at the Site and there is no potential for exposure. As there is currently no structures onsite, accumulation of soil vapor cannot pose an exposure threat.

Construction/Remediation Activities: Once redevelopment activities begin, construction workers will come into direct contact with surface and subsurface soils and groundwater, as a result of on-Site construction and excavation activities. On-Site construction workers potentially could ingest, inhale or have dermal contact with soil, fill, and groundwater. Similarly, off-Site receptors could be exposed to dust and vapors from on-Site activities. During construction, on-Site and off-Site exposures to contaminated dust from on-Site will be addressed through the Soil/Materials Management Plan, dust controls, and through the implementation of the Community Air-Monitoring Program and a Construction Health and Safety Plan.

Proposed Future Conditions: Once the remedial actions and redevelopment of the Site has been completed, there will be no potential on-Site or off-Site exposure pathways. Not only will soil/fill exceeding Track 1 - Unrestricted Use SCOs be removed, but the Site will also be fully capped with a basement concrete slab and rear courtyard concrete slab, which will prevent contact with soil. Any exposures to vapors will be prevented by the installation of a vapor barrier as part of development.

### **Overall Human Health Exposure Assessment**

The proposed development will consist of the construction of 4-story apartment building with a full basement and a rear cellar level courtyard. The cellar level will extend as deep as 6 feet bgs. Soil/fill material exceeding Part 375 Track 1 Unrestricted Use SCOs will be removed during Site development, eliminating potential impacts to human health or the environment. If there is any remaining residual metal- or SVOC-impacted soil that is not excavated, it will be removed to achieve Track 1, thereby eliminating the exposure pathway. Additionally, the impermeable cap (i.e., the proposed development) and vapor barrier will eliminate exposure pathways to contaminated groundwater and soil vapor and related potential impacts to human health.

Based upon this analysis, complete on-Site exposure pathways appear to be present during the remedial action phase. Under current conditions, on-Site exposure pathways exist for contractors and others that may access the Site. During remedial construction, on-Site and off-Site exposures to contaminated dust from historic fill material will be addressed through dust controls, and through the implementation of the Community Air Monitoring Program, the Soil/Materials Management Plan, and a Construction Health and Safety Plan. After the remedial action is

complete, there will be no remaining exposure pathways to on-Site soil/fill or groundwater, as all soil above Unrestricted Use SCOs will have been removed and a vapor barrier system will have been installed as part of development. If Track 1 remedy is not achieved, continued protection after the remedial action will be achieved by the implementation of site management including periodic inspection and certification of the performance of remedial controls.

## **5.0 REMEDIAL ACTION MANAGEMENT**

### **5.1 Project Organization and Oversight**

Principal personnel who will participate in the remedial action include Kevin Brussee, Project Manager-EBC and Kevin Waters, Field Operations Officer-EBC. The Professional Engineer (PE) and Qualified Environmental Professionals (QEP) for this project are Ariel Czemerinski P.E., AMC Engineering and Charles Sosik P.G. EBC.

### **5.2 Site Security**

Site access will be controlled by a chain link or wooden construction fence, which will surround the property.

### **5.3 Work Hours**

The hours for operation of remedial construction will be from 7:00AM to 6:00PM. These hours conform to the New York City Department of Buildings construction code requirements.

### **5.4 Construction Health and Safety Plan**

The Construction Health and Safety Plan is included in Appendix 4. The Site Safety Coordinator will be Kevin Waters - EBC. Remedial work performed under this RAWP will be in full compliance with applicable health and safety laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements. Confined space entry, if any, will comply with OSHA requirements and industry standards and will address potential risks. The parties performing the remedial construction work will ensure that performance of work is in compliance with the HASP and applicable laws and regulations. The HASP pertains to remedial and invasive work performed at the Site until the issuance of the Notice of Completion.

All field personnel involved in remedial activities will participate in training required under 29 CFR 1910.120, including 40-hour hazardous waste operator training and annual 8-hour refresher training. Site Safety Officer will be responsible for maintaining workers training records.

Personnel entering any exclusion zone will be trained in the provisions of the HASP and be required to sign an HASP acknowledgment. Site-specific training will be provided to field personnel. Additional safety training may be added depending on the tasks performed.

Emergency telephone numbers will be posted at the site location before any remedial work begins. A safety meeting will be conducted before each shift begins. Topics to be discussed include task hazards and protective measures (physical, chemical, environmental); emergency procedures; PPE levels and other relevant safety topics. Meetings will be documented in a log book or specific form.

An emergency contact sheet with names and phone numbers is included in the HASP. That document will define the specific project contacts for use in case of emergency.

### **5.5 Community Air Monitoring Plan**

Real-time air monitoring for volatile organic compounds (VOCs) and particulate levels at the perimeter of the exclusion zone or work area will be performed. Continuous monitoring will be performed for all ground intrusive activities and during the handling of contaminated or potentially contaminated media. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pit excavation or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be performed during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection, for instance, will consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. Depending upon the proximity of potentially exposed individuals, continuous monitoring may be performed during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence. Exceedences of action levels observed during performance of the Community Air Monitoring Plan (CAMP) will be reported to the OER Project Manager and included in the Daily Report.

### **VOC Monitoring, Response Levels, and Actions**

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis during invasive work.

Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown.

All 15-minute readings must be recorded and be available for OER personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

### **Particulate Monitoring, Response Levels, and Actions**

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In

addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter ( $\text{mcg}/\text{m}^3$ ) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed  $150 \text{ mcg}/\text{m}^3$  above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than  $150 \text{ mcg}/\text{m}^3$  above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within  $150 \text{ mcg}/\text{m}^3$  of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for OER personnel to review.

## **5.6 Agency Approvals**

All permits or government approvals required for remedial construction have been or will be obtained prior to the start of remedial construction. Approval of this RAWP by OER does not constitute satisfaction of these requirements and will not be a substitute for any required permit.

## **5.7 Site Preparation**

### **Pre-Construction Meeting**

OER will be invited to attend the pre-construction meeting at the Site with all parties involved in the remedial process prior to the start of remedial construction activities.

### **Mobilization**

Mobilization will be conducted as necessary for each phase of work at the Site. Mobilization includes field personnel orientation, equipment mobilization (including securing all sampling equipment needed for the field investigation), marking/staking sampling locations and utility mark-outs. Each field team member will attend an orientation meeting to become familiar with the general operation of the Site, health and safety requirements, and field procedures.

### **Utility Marker Layouts, Easement Layouts**

The presence of utilities and easements on the Site will be fully investigated prior to the performance of invasive work such as excavation or drilling under this plan by using, at a minimum, the One-Call System (811). Underground utilities may pose an electrocution, explosion, or other hazard during excavation or drilling activities. All invasive activities will be performed in compliance with applicable laws and regulations to assure safety. Utility companies and other responsible authorities will be contacted to locate and mark the locations, and a copy of the Markout Ticket will be retained by the contractor prior to the start of drilling, excavation or other invasive subsurface operations. Overhead utilities may also be present within the anticipated work zones. Electrical hazards associated with drilling in the vicinity of overhead utilities will be prevented by maintaining a safe distance between overhead power lines and drill rig masts.

Proper safety and protective measures pertaining to utilities and easements, and compliance with all laws and regulations will be employed during invasive and other work contemplated under this RAWP. The integrity and safety of on-Site and off-Site structures will be maintained during all invasive, excavation or other remedial activity performed under the RAWP.

### **Dewatering**

In the event that dewatering of groundwater during construction will be necessary, the water will be disposed into the New York City combined sanitary/storm sewer system. A permit to discharge will be obtained from the New York City Department of Environmental Protection (NYCDEP). As part of the permit to discharge, the location of discharge will be based on the Site-Specific requirements of the DEP. The need for pretreatment will be determined by DEP's requirements for the discharge permit. If pretreatment is required by the DEP, it will be performed in accordance with the requirements of the DEP.

### **Equipment and Material Staging**

Equipment and materials will be stored and staged in a manner that complies with applicable laws and regulations. Staging locations will be reported to OER prior to the start of the remedial action.

### **Stabilized Construction Entrance**

Steps will be taken to ensure that trucks departing the site will not track soil, fill or debris off-Site. Such actions may include use of cleaned asphalt or concrete roads or use of stone or other aggregate-based egress paths between the truck inspection station and the property exit. Measures will be taken to ensure that adjacent roadways will be kept clean of project related soils, fill and debris.

### **Truck Inspection Station**

An outbound-truck inspection station will be set up close to the Site exit. Before exiting the NYC VCP Site, trucks will be required to stop at the truck inspection station and will be examined for evidence of contaminated soil on the undercarriage, body, and wheels. Soil and debris will be removed. Brooms, shovels and potable water will be utilized for the removal of soil from vehicles and equipment, as necessary.

### **Extreme Storm Preparedness and Response Contingency Plan**

Damage from flooding or storm surge can include dislocation of soil and stockpiled materials, dislocation of site structures and construction materials and equipment, and dislocation of support of excavation structures. Damage from wind during an extreme storm event can create unsafe or unstable structures, damage safety structures and cause downed power lines creating dangerous site conditions and loss of power. In the event of emergency conditions caused by an extreme storm event, the Throop Wallabout Realty, LLC will undertake the following steps for site preparedness prior to the event and response after the event.

### **Storm Preparedness**

Preparations in advance of an extreme storm event will include the following: containerized hazardous materials and fuels will be removed from the property; loose materials will be secured to prevent dislocation and blowing by wind or water; heavy equipment such as excavators and generators will be removed from holes, trenches and depressions on the property to high ground or removed from the property; an inventory of the property with photographs will be performed to establish conditions for the site and equipment prior to the event; stockpile covers for soil and fill will be secured by adding weights such as sandbags for added security and worn or ripped stockpile covers will be replaced with competent covers; stockpiled hazardous wastes will be

removed from the property; stormwater management systems will be inspected and fortified, including, as necessary: clean and reposition silt fences, haybales; clean storm sewer filters and traps; and secure and protect pumps and hosing.

### **Storm Response**

At the conclusion of an extreme storm event, as soon as it is safe to access the property, a complete inspection of the property will be performed. A site inspection report will be submitted to OER at the completion of site inspection and after the site security is assessed. Site conditions will be compared to the inventory of site conditions and material performed prior to the storm event and significant differences will be noted. Damage from storm conditions that result in acute public safety threats, such as downed power lines or imminent collapse of buildings, structures or equipment will be reported to public safety authorities via appropriate means such as calling 911. Petroleum spills will be reported to NYS DEC within 2 hours of identification and consistent with State regulations. Emergency and spill conditions will also be reported to OER. Public safety structures, such as construction security fences will be repaired promptly to eliminate public safety threats. Debris will be collected and removed. Dewatering will be performed in compliance with existing laws and regulations and consistent with emergency notifications, if any, from proper authorities. Eroded areas of soil including unsafe slopes will be stabilized and fortified. Dislocated materials will be collected and appropriately managed. Support of excavation structure will be inspected and fortified as necessary. Impacted stockpiles will be contained and damaged stockpile covers will be replaced. Storm-water control systems and structures will be inspected and maintained as necessary. If soil or fill materials are discharged off site to adjacent properties, property owners and OER will be notified and corrective measure plan designed to remove and clean dislocated material will be submitted to OER and implemented following approval by OER and granting of site access by the property owner. Impacted offsite areas may require characterization based on site conditions, at the discretion of OER. If onsite petroleum spills are identified, a qualified environmental professional will determine the nature and extent of the spill and report to NYS DEC's spill hotline at DEC 800-457-7362. If the source of the spill is ongoing and can be identified, it should be stopped if this can be done safely. Potential hazards will be addressed immediately, consistent with guidance issued by NYS DEC.

## **Storm Response Reporting**

A site inspection report will be submitted to OER at the completion of site inspection. An inspection report established by OER is available on OER's website ([www.nyc.gov/oer](http://www.nyc.gov/oer)) and will be used for this purpose. Site conditions will be compared to the inventory of site conditions and material performed prior to the storm event and significant differences will be noted. The site inspection report will be sent to the OER project manager and will include the site name, address, tax block and lot, site primary and alternate contact name and phone number. Damage and soil release assessment will include: whether the project had stockpiles; whether stockpiles were damaged; photographs of damage and notice of plan for repair; report of whether soil from the site was dislocated and whether any of the soil left the site; estimates of the volume of soil that left the site, nature of impact, and photographs; description of erosion damage; description of equipment damage; description of damage to the remedial program or the construction program, such as damage to the support of excavation; presence of onsite or offsite exposure pathways caused by the storm; presence of petroleum or other spills and status of spill reporting to NYS DEC; description of corrective actions; schedule for corrective actions. This report should be completed and submitted to OER project manager with photographs within 24 hours of the time of safe entry to the property after the storm event.

## **5.8 Traffic Control**

Drivers of trucks leaving the NYC VCP Site with soil/fill will be instructed to proceed without stopping in the vicinity of the site to prevent neighborhood impacts. The planned route on local roads for trucks leaving the Site is the following:

- 1) Continue south on Throop Avenue for approximately 25 ft, then turn right onto Gerry Street.
- 2) Continue west on Gerry Street and make the 2nd right onto Union Avenue.
- 3) Continue north on Union Avenue to Interstate 278 - Brooklyn Queens Expressway.

## **5.9 Demobilization**

Demobilization will include:

- As necessary, restoration of temporary access areas and areas that may have been disturbed to accommodate support areas (e.g., staging areas, decontamination areas, storage areas, temporary water management areas, and access area);

- Removal of sediment from erosion control measures and truck wash and disposal of materials in accordance with applicable laws and regulations;
- Equipment decontamination, and;
- General refuse disposal.

Equipment will be decontaminated and demobilized at the completion of all field activities. Investigation equipment and large equipment (*e.g.*, soil excavators) will be washed at the truck inspection station as necessary. In addition, all investigation and remediation derived waste will be appropriately disposed.

## **5.10 Reporting and Record Keeping**

### **Daily Reports**

Daily reports providing a general summary of activities for each day of *active remedial work* will be emailed to the OER Project Manager by the end of the following day. Those reports will include:

- Project number and statement of the activities and an update of progress made and locations of work performed;
- Quantities of material imported and exported from the Site; and the disposal locations of exported materials;
- Status of on-Site soil/fill stockpiles;
- A summary of all citizen complaints, with relevant details (basis of complaint; actions taken; etc.);
- A summary of CAMP excursions, if any;
- Photograph of notable Site conditions and activities.

The frequency of the reporting period may be revised in consultation with OER project manager based on planned project tasks. Daily email reports are not intended to be the primary mode of communication for notification to OER of emergencies (accidents, spills), requests for changes to the RAWP or other sensitive or time critical information. However, such information will be included in the daily reports. Emergency conditions and changes to the RAWP will be communicated directly to the OER project manager by personal communication. Daily reports will be included as an Appendix in the Remedial Action Report.

## **Record Keeping and Photo-Documentation**

Job-site record keeping for all remedial work will be performed. These records will be maintained on-Site during the project and will be available for inspection by OER staff. Representative photographs will be taken of the Site prior to any remedial activities and during major remedial activities to illustrate remedial program elements and contaminant source areas. Photographs will be submitted at the completion of the project in the RAR in digital format (i.e. jpeg files).

### **5.11 Complaint Management**

All complaints from citizens will be promptly reported to OER. Complaints will be addressed and outcomes will also be reported to OER in daily reports. Notices to OER will include the nature of the complaint, the party providing the complaint, and the actions taken to resolve any problems.

### **5.12 Deviations from the Remedial Action Work Plan**

All changes to the RAWP will be reported to the OER Project Manager and will be documented in daily reports and reported in the Remedial Action Report. The process to be followed if there are any deviations from the RAWP will include a request for approval for the change from OER noting the following:

- Reasons for deviating from the approved RAWP;
- Effect of the deviations on overall remedy; and
- Determination that the remedial action with the deviation(s) is protective of public health and the environment.

## 6.0 REMEDIAL ACTION REPORT

A Remedial Action Report (RAR) will be submitted to OER following implementation of the remedial action defined in this RAWP. The RAR will document that the remedial work required under this RAWP has been completed and has been performed in compliance with this plan. The RAR will include:

- Information required by this RAWP;
- As-built drawings for all constructed remedial elements, required certifications, manifests and other written and photographic documentation of remedial work performed under this remedy;
- Site Management Plan;
- Description of any changes in the remedial action from the elements provided in this RAWP and associated design documents;
- Tabular summary of all end point sampling results and all material characterization results, QA/QC results for end-point sampling, and other sampling and chemical analysis performed as part of the remedial action and DUSR;
- Test results or other evidence demonstrating that remedial systems are functioning properly;
- Account of the source area locations and characteristics of all contaminated material removed from the Site including a map showing source areas;
- Account of the disposal destination of all contaminated material removed from the Site. Documentation associated with disposal of all material will include transportation and disposal records, and letters approving receipt of the material.
- Account of the origin and required chemical quality testing for material imported onto the Site.
- If Track 1 Remedial Action is not achieved, continue registration of the property with an E-Designation by the NYC Department of Buildings.
- Reports and supporting material will be submitted in digital form.

## **Remedial Action Report Certification**

The following certification will appear in front of the Executive Summary of the Remedial Action Report. The certification will include the following statements:

*I, \_\_\_\_\_, am currently a professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the remedial program for the Site name Site Site number.*

*I certify that the OER-approved Remedial Action Work Plan dated month day year and Stipulations in a letter dated month day, year; if any were implemented and that all requirements in those documents have been substantively complied with. I certify that contaminated soil, fill, liquids or other material from the property were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.*

## 7.0 SCHEDULE

The table below presents a schedule for the proposed remedial action and reporting. If the schedule for remediation and development activities changes, it will be updated and submitted to OER. Currently, a 6 month remediation period is anticipated.

<b>Schedule Milestone</b>	<b>Weeks from Remedial Action Start</b>	<b>Duration (weeks)</b>
OER Approval of RAWP	0	-
Fact Sheet 2 announcing start of remedy	0	-
Mobilization	1	1
Remedial Excavation	2	6
Demobilization	10	1
Submit Remedial Action Report	20	-

# **TABLES**

**TABLE 1**  
**SOIL CLEANUP OBJECTIVES**  
**SOIL IMPORT CRITERIA**

Contaminant	CAS Number	Unrestricted Use
<b>Metals</b>		
Arsenic	7440-38-2	13 <sup>c</sup>
Barium	7440-39-3	350 <sup>c</sup>
Beryllium	7440-41-7	7.2
Cadmium	7440-43-9	2.5 <sup>c</sup>
Chromium, hexavalent <sup>e</sup>	18540-29-9	1 <sup>b</sup>
Chromium, trivalent <sup>e</sup>	16065-83-1	30 <sup>c</sup>
Copper	7440-50-8	50
Total Cyanide <sup>e, f</sup>		27
Lead	7439-92-1	63 <sup>c</sup>
Manganese	7439-96-5	1600 <sup>c</sup>
Total Mercury		0.18 <sup>c</sup>
Nickel	7440-02-0	30
Selenium	7782-49-2	3.9 <sup>c</sup>
Silver	7440-22-4	2
Zinc	7440-66-6	109 <sup>c</sup>
<b>PCBs/Pesticides</b>		
2,4,5-TP Acid (Silvex) <sup>f</sup>	93-72-1	3.8
4,4'-DDE	72-55-9	0.0033 <sup>b</sup>
4,4'-DDT	50-29-3	0.0033 <sup>b</sup>
4,4'-DDD	72-54-8	0.0033 <sup>b</sup>
Aldrin	309-00-2	0.005 <sup>c</sup>
alpha-BHC	319-84-6	0.02
beta-BHC	319-85-7	0.036
Chlordane (alpha)	5103-71-9	0.094

**TABLE 1**  
**SOIL CLEANUP OBJECTIVES**

<b>Contaminant</b>	<b>CAS Number</b>	<b>Unrestricted Use</b>
delta-BHC <sup>g</sup>	319-86-8	0.04
Dibenzofuran <sup>f</sup>	132-64-9	7
Dieldrin	60-57-1	0.005 <sup>c</sup>
Endosulfan I <sup>d,f</sup>	959-98-8	2.4
Endosulfan II <sup>d,f</sup>	33213-65-9	2.4
Endosulfan sulfate <sup>d,f</sup>	1031-07-8	2.4
Endrin	72-20-8	0.014
Heptachlor	76-44-8	0.042
Lindane	58-89-9	0.1
Polychlorinated biphenyls	1336-36-3	0.1
<b>Semivolatile organic compounds</b>		
Acenaphthene	83-32-9	20
Acenaphthylene <sup>f</sup>	208-96-8	100 <sup>a</sup>
Anthracene <sup>f</sup>	120-12-7	100 <sup>a</sup>
Benz(a)anthracene <sup>f</sup>	56-55-3	1 <sup>c</sup>
Benzo(a)pyrene	50-32-8	1 <sup>c</sup>
Benzo(b)fluoranthene <sup>f</sup>	205-99-2	1 <sup>c</sup>
Benzo(g,h,i)perylene <sup>f</sup>	191-24-2	100
Benzo(k)fluoranthene <sup>f</sup>	207-08-9	0.8 <sup>c</sup>
Chrysene <sup>f</sup>	218-01-9	1 <sup>c</sup>
Dibenz(a,h)anthracene <sup>f</sup>	53-70-3	0.33 <sup>b</sup>
Fluoranthene <sup>f</sup>	206-44-0	100 <sup>a</sup>
Fluorene	86-73-7	30
Indeno(1,2,3-cd)pyrene <sup>f</sup>	193-39-5	0.5 <sup>c</sup>
m-Cresol <sup>f</sup>	108-39-4	0.33 <sup>b</sup>
Naphthalene <sup>f</sup>	91-20-3	12
o-Cresol <sup>f</sup>	95-48-7	0.33 <sup>b</sup>

**TABLE 1**  
**SOIL CLEANUP OBJECTIVES**

<b>Contaminant</b>	<b>CAS Number</b>	<b>Unrestricted Use</b>
p-Cresol <sup>f</sup>	106-44-5	0.33 <sup>b</sup>
Pentachlorophenol	87-86-5	0.8 <sup>b</sup>
Phenanthrene <sup>f</sup>	85-01-8	100
Phenol	108-95-2	0.33 <sup>b</sup>
Pyrene <sup>f</sup>	129-00-0	100
<b>Volatile organic compounds</b>		
1,1,1-Trichloroethane <sup>f</sup>	71-55-6	0.68
1,1-Dichloroethane <sup>f</sup>	75-34-3	0.27
1,1-Dichloroethene <sup>f</sup>	75-35-4	0.33
1,2-Dichlorobenzene <sup>f</sup>	95-50-1	1.1
1,2-Dichloroethane	107-06-2	0.02 <sup>c</sup>
cis -1,2-Dichloroethene <sup>f</sup>	156-59-2	0.25
trans-1,2-Dichloroethene <sup>f</sup>	156-60-5	0.19
1,3-Dichlorobenzene <sup>f</sup>	541-73-1	2.4
1,4-Dichlorobenzene	106-46-7	1.8
1,4-Dioxane	123-91-1	0.1 <sup>b</sup>
Acetone	67-64-1	0.05
Benzene	71-43-2	0.06
n-Butylbenzene <sup>f</sup>	104-51-8	12
Carbon tetrachloride <sup>f</sup>	56-23-5	0.76
Chlorobenzene	108-90-7	1.1
Chloroform	67-66-3	0.37
Ethylbenzene <sup>f</sup>	100-41-4	1
Hexachlorobenzene <sup>f</sup>	118-74-1	0.33 <sup>b</sup>
Methyl ethyl ketone	78-93-3	0.12
Methyl tert-butyl ether <sup>f</sup>	1634-04-4	0.93
Methylene chloride	75-09-2	0.05

**TABLE 1**  
**SOIL CLEANUP OBJECTIVES**

Contaminant	CAS Number	Unrestricted Use
n - Propylbenzene <sup>f</sup>	103-65-1	3.9
sec-Butylbenzene <sup>f</sup>	135-98-8	11
tert-Butylbenzene <sup>f</sup>	98-06-6	5.9
Tetrachloroethene	127-18-4	1.3
Toluene	108-88-3	0.7
Trichloroethene	79-01-6	0.47
1,2,4-Trimethylbenzene <sup>f</sup>	95-63-6	3.6
1,3,5-Trimethylbenzene <sup>f</sup>	108-67-8	8.4
Vinyl chloride <sup>f</sup>	75-01-4	0.02
Xylene (mixed)	1330-20-7	0.26

All soil cleanup objectives (SCOs) are in parts per million (ppm).

**Footnotes**

<sup>a</sup> The SCOs for unrestricted use were capped at a maximum value of 100 ppm. See [Technical Support Document \(TSD\)](#), section 9.3.

<sup>b</sup> For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the Track 1 SCO value.

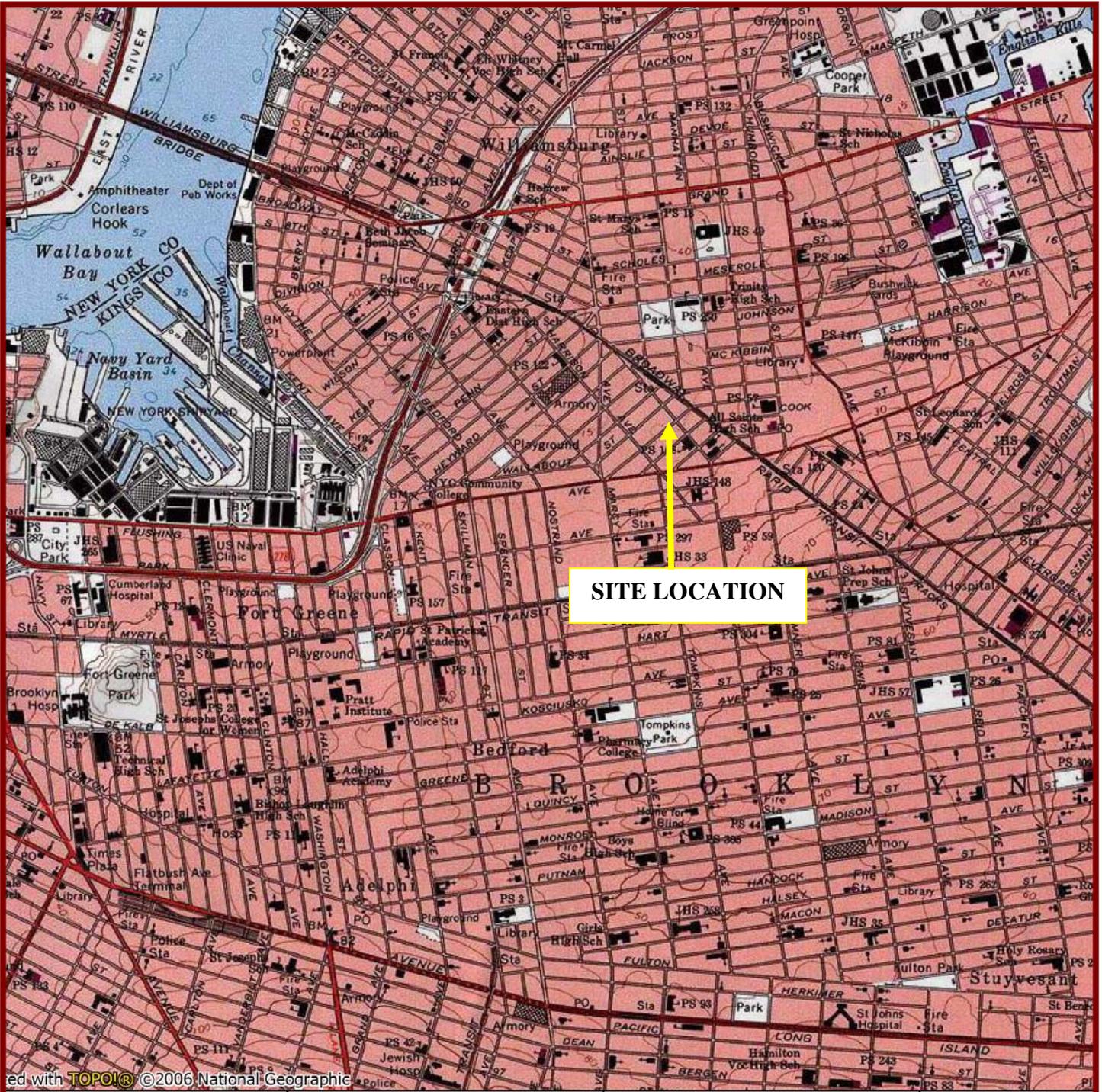
<sup>c</sup> For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.

<sup>d</sup> SCO is the sum of endosulfan I, endosulfan II and endosulfan sulfate.

<sup>e</sup> The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

<sup>f</sup> Protection of ecological resources SCOs were not developed for contaminants identified in Table 375-6.8(b) with "NS". Where such contaminants appear in Table 375-6.8(a), the applicant may be required by the Department to calculate a protection of ecological resources SCO according to the TSD.

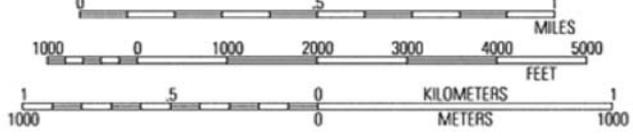
# **FIGURES**



**SITE LOCATION**

ed with **TOPOIG** ©2006 National Geographic

00' W      73°58.000' W      73°57.000' W      WGS84 73°56.000' W



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Phone 631.504.6000  
Fax 631.924.2870

82 THROOP AVENUE  
BROOKLYN, NEW YORK 11206

FIGURE 1 - SITE LOCATION MAP

GERRY STREET

THROOP AVENUE

LOT 36

LOT 34

LOT 33

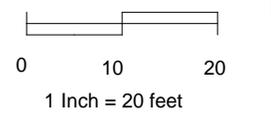
LOT 32

LOT 31

LOT 30



SCALE:



KEY:

--- Property Boundary



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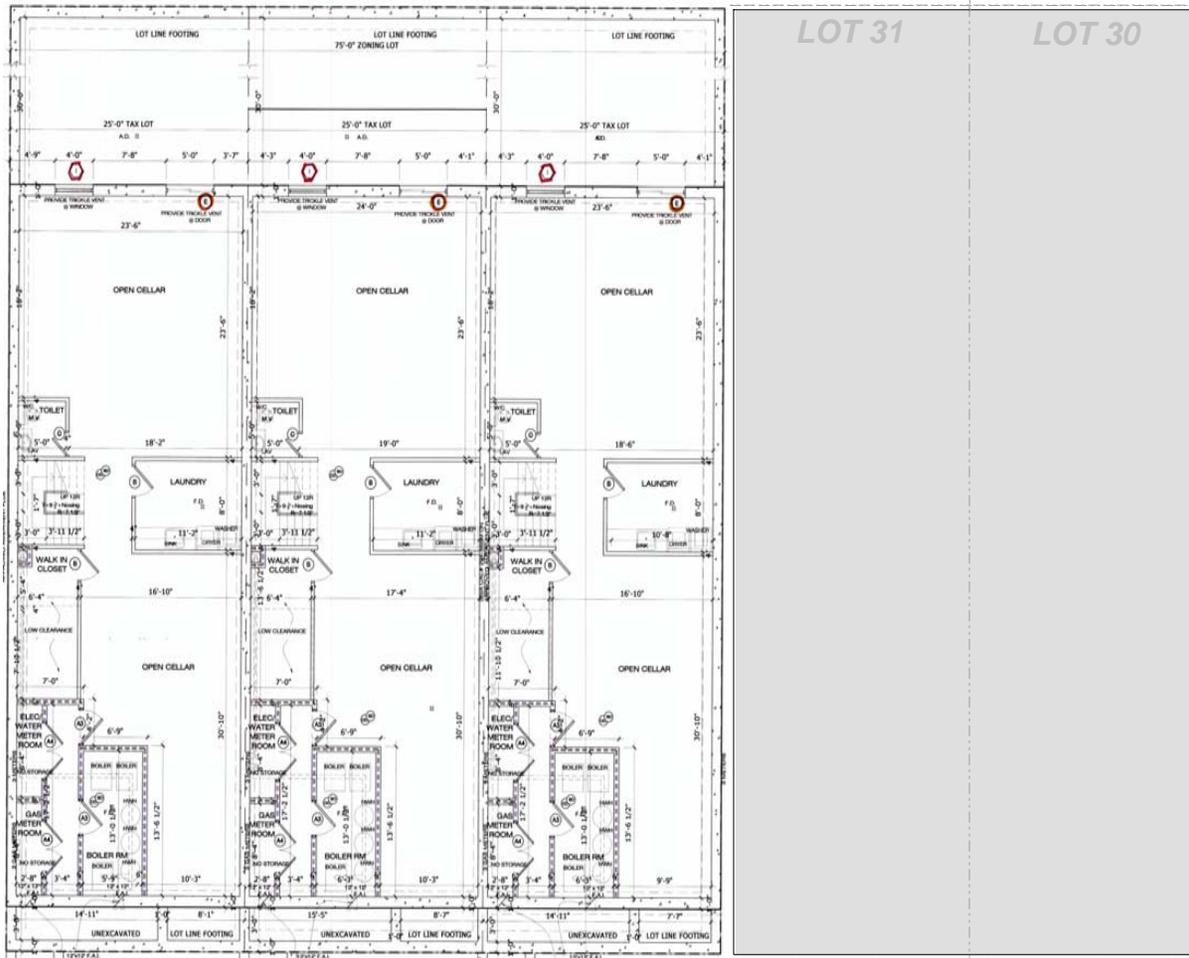
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BROOKLYN, NY 11206

**FIGURE 2**      **SITE PLAN**

LOT 36

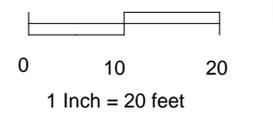


GERRY STREET

THROOP AVENUE



SCALE:



KEY:

--- Property Boundary



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**FIGURE 3** REDEVELOPMENT PLAN



**FIGURE 4**  
**SURROUNDING LAND USE MAP**

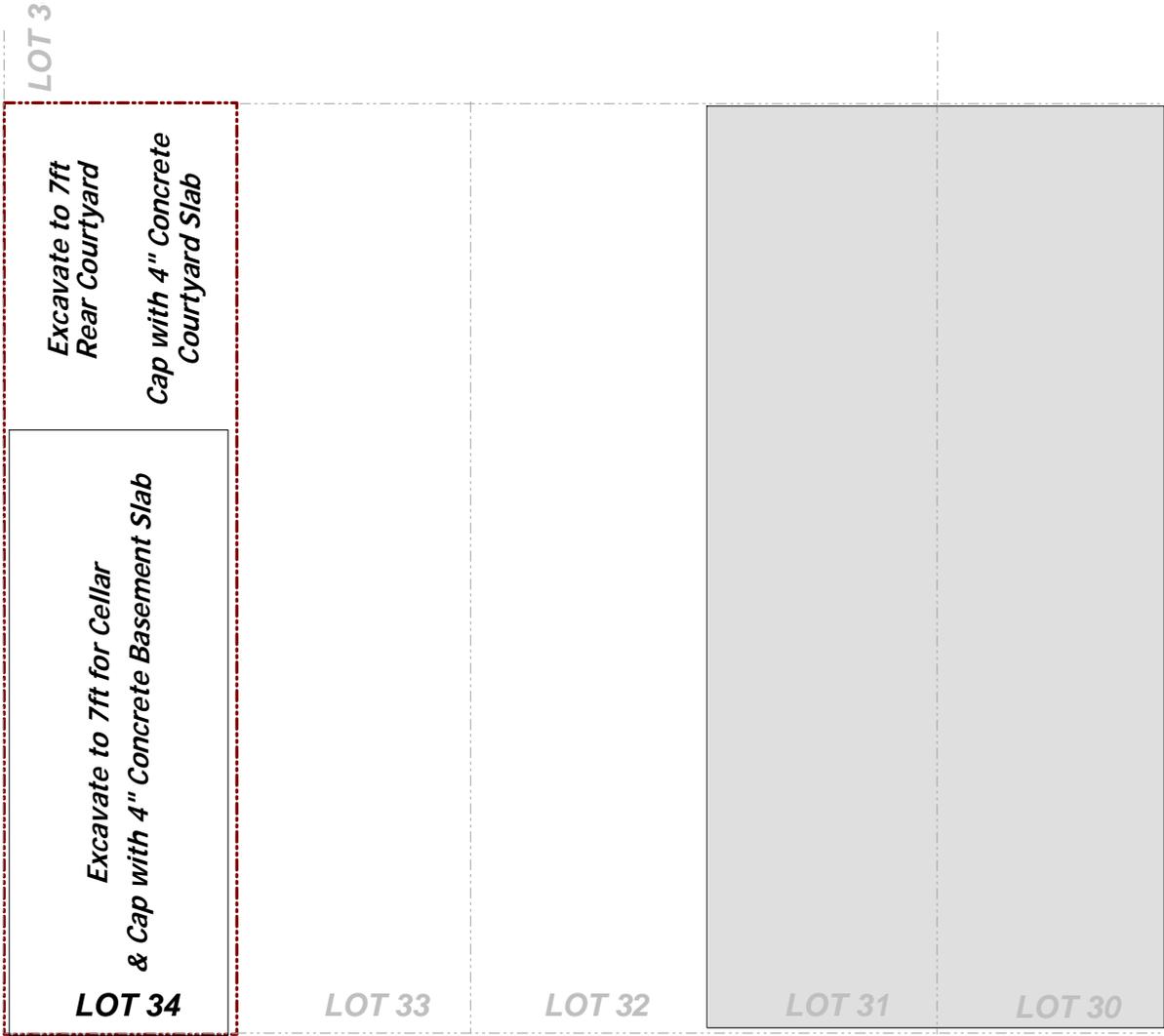
82 THROOP AVENUE, BROOKLYN, NY  
 REMEDIAL INVESTIGATION REPORT



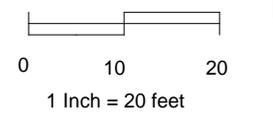
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 PHONE: (631) 504-6000 FAX: (631) 924-2870

GERRY STREET

THROOP AVENUE



SCALE:



KEY:

--- Property Boundary



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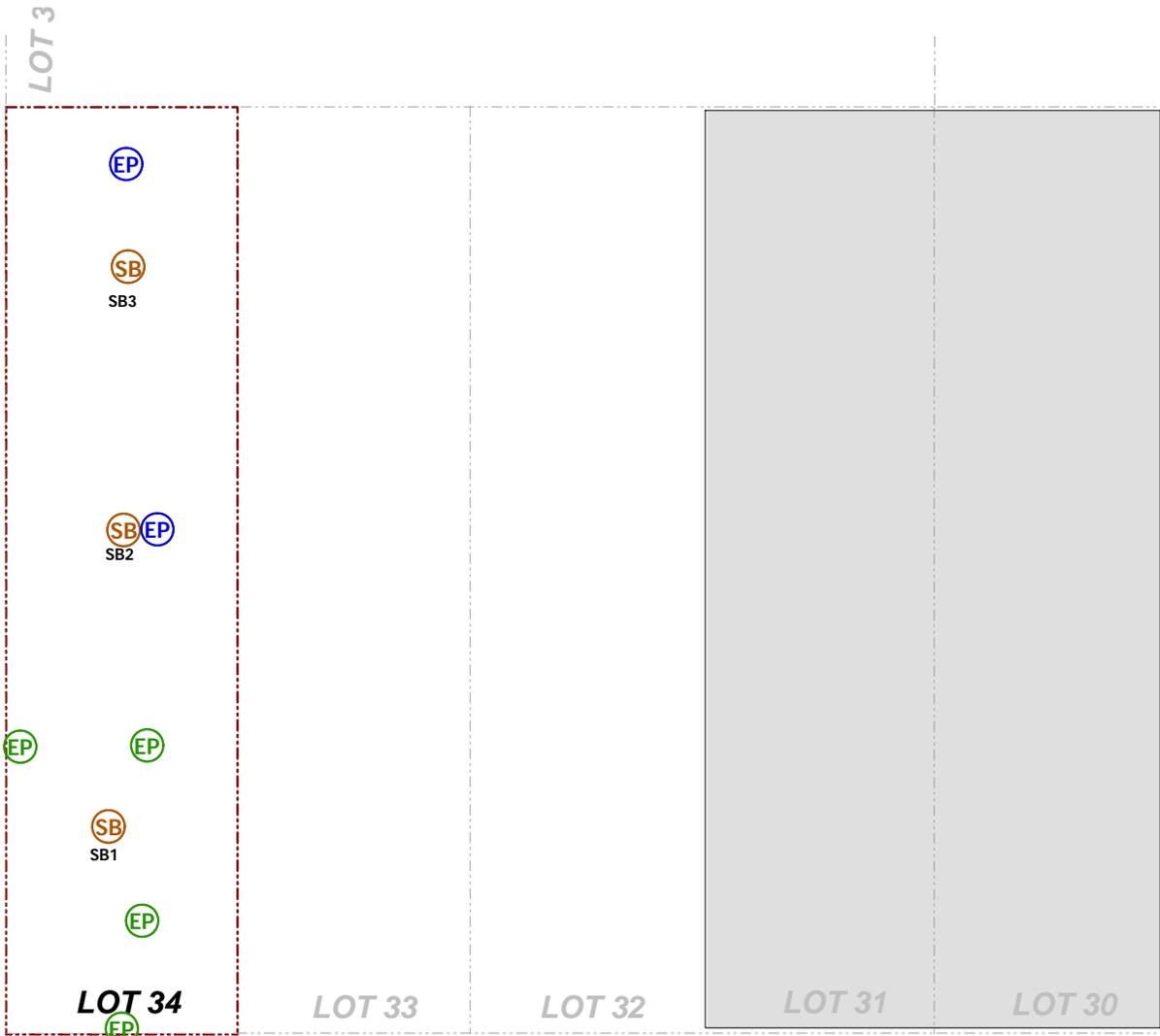
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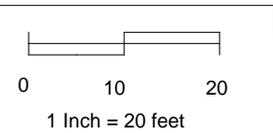
FIGURE 5 EXCAVATION AND CAPPING PLAN

GERRY STREET

THROOP AVENUE



SCALE:



KEY:

-  RI Soil Boring Location
-  Endpoint Sample Location  
Analyzed for SVOCs, Metals, Pesticides
-  Endpoint Sample Location  
Analyzed for VOCs and SVOCs CP51
-  Property Boundary



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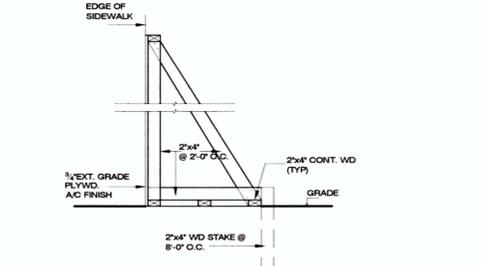
FIGURE 6 SITE SAMPLING LOCATIONS



**ATTACHMENT A**  
**PROPOSED DEVELOPMENT PLANS**

**LEGEND**

- MASONRY WALL = 4" THK. FACE BRICK W/ 10" or 8" APPROVED TYPE LOAD BEARING CONC. BLOCK, FURRED W/ 3 5/8" METAL STUDS @ 16" O.C. W/ 3 1/2" FIBERGLASS BATT INSULATION (R-11) BETWEEN STUDS & (1) LAYER FC #60, 5/8" THK. G.W.B., (3) HR FIRE RATED.
- EXTERIOR WALL (AT BULKHEADS) GA FILE NO. WP 8250 GYPSUM WALLBOARD, STEEL STUDS, GYPSUM SHEATHING, METAL LATH, CEMENT-LIME STUCCO, MINERAL FIBER INSULATION EXTERIOR SIDE ONE LAYER 2" GYPSUM SHEATHING APPLIED AT RIGHT ANGLES TO 20 GAGE STEEL STUDS 16" O.C. SELF-FURRING METAL LATH, 3 L.B. ATTACHED THROUGH SHEATHING TO STUDS WITH 2" TYPE S-12 DRYWALL SCREWS @ 8" O.C. 1" PORTLAND CEMENT-LIME STUCCO APPLIED OVER LATH INTERIOR SIDE ONE LAYER 5/8" KOL BACKED PROPRIETARY TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED PARALLEL TO STUDS WITH 1" TYPE S-12 DRYWALL SCREWS @ 8" O.C. 3" MINERAL FIBER INSULATION, 2.0 PCF, IN STUD SPACE (R-13)
- 3 5/8" METAL STUDS @ 16" O.C. W/ (2) LAYERS, FC #60, 5/8" THK. G.W.B. ON BOTH SIDES, (2) HR FIRE RATED, BSA CAL #301-60 SM GA FILE NO. WP 1521, 45-49 STC SOUND
- 3 5/8" METAL STUDS @ 16" O.C. W/ (1) LAYER, FC #60, 5/8" THK. G.W.B. ON BOTH SIDES, (1) HR FIRE RATED, BSA CAL #301-60 SM GA FILE NO. WP 1072, 40-44 STC SOUND
- 8" APPROVED TYPE LOAD BEARING CONCRETE BLOCK WALL
- POURED CONCRETE FOUNDATION WALL, ON CONCRETE FOOTING.
- MASONRY EQUIVALENT WALL SEE SHEET A001 - BSA CALL # 542-68-5M - STC 50 TO 54
- SMOKE & CARBON MONOXIDE DETECTOR (SEE NOTES)
- MECHANICAL VENT., 50 CFM FOR BATHROOM, 75 CFM FOR LAUNDRY ROOM & 125 CFM FOR KITCHEN, 4 CHANGES PER HOUR.
- ILLUMINATED DIRECTIONAL EXIT SIGN W/ 6" H. LETTERS ILLUMINATED DIRECTIONAL EXIT SIGN W/ 6" HIGH AND 2" WIDE LETTERS. EXIT SIGN SHALL BE ILLUMINATED AT ALL TIMES
- DOOR KEY (SEE SCHEDULE)
- WINDOW KEY (SEE SCHEDULE)



**CONSTRUCTION FENCE**

SCALE 1/2" = 1'-0"

**NOTE:** THERE IS NO CONFLICT FOR THE CONSTRUCTION OF BUILDING WITHIN ANY SUBWAY LINES

**NOTE:** ENTIRE BUILDING TO BE FULLY SPRINKLERED SPRINKLERS TO BE FILED UNDER A SEPARATE APPLICATION - PRIOR TO SIGN OFF

**ENERGY NOTE:** \* TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.\*

**ZONING ANALYSIS**

**PROPERTY DATA:**  
 ADDRESS: 78, 80 & 82 THROOP AVENUE, BROOKLYN, N.Y.  
 BLOCK # 2266  
 LOT # 32, 33 & 34  
 CB # 301  
 BIN # 3834225  
 ZONING MAP # 12b  
 FIRE DISTRICT: YES  
 STRUCTURAL OCCUPANCY CATEGORY: II (TABLE 1604.5)  
 ZONING LOT AREA: 75'-0" x 100'-0" = 7,500 SF  
 ZONING DISTRICT: C2-4 / R7A (INCLUSIONARY HOUSING AREA - APPENDIX F, map 4)

**(ZR 42-00) PERMITTED USE GROUPS:**  
 2 RESIDENTIAL, 4 COMMUNITY FACILITY, COMMERCIAL

**SCOPE OF WORK:**  
 PROPOSED NEW 4-STORY & CELLAR MASONRY BUILDING.  
 PROPOSED RESIDENTIAL U6-2, O6-R-2 ON THE CELLAR THRU FOURTH FLOOR.  
 CONSTRUCTION CLASSIFICATION IB.

**ZONING ANALYSIS:**  
 ARTICLE 3, CHAPTER 4, RESIDENTIAL BUILDINGS IN COMMERCIAL DISTRICT ZR 34-11 -> ARTICLE II CHAPTER 4 APPLIES, EXCEPT ZR 34-21 THRU ZR 34-24 PROPOSED AS RESIDENTIAL, PERMITTED FLOOR AREA RATIO: (INCLUSIONARY HOUSING) ZR 34-22--(ZR 23-144) & (ZR 23-952) F.A.R. = 3.45; MAX FLOOR AREA = 7,500 X 3.45 = 25,875 SF

**PROPOSED RESIDENTIAL FLOOR AREA:**  
 CELLAR FLOOR = 75'-0" x 65'-0" = 4,875 S.F.  
 FIRST FLOOR = 75'-0" x 65'-0" = 4,875 S.F.  
 SECOND FLOOR = 75'-0" x 65'-0" = 4,875 S.F.  
 THIRD FLOOR = 75'-0" x 65'-0" = 4,875 S.F.  
 FOURTH FLOOR = 75'-0" x 65'-0" = 4,875 S.F.  
 TOTAL FLOOR AREA = 24,375 SF ± 25,875 S.F. OK

**PERMITTED MAXIMUM LOT COVERAGE**  
 ZR 34-22--(ZR 23-145) F.A.R. = 0.65, THEREFORE = 0.65 x 7,500 = 5,625 S.F.  
 PROPOSED LOT COVERAGE = 4,875 S.F. ± 5,625 S.F. OK

**DENSITY**  
 (ZR 23-22) MAX F.A. / 680, THEREFORE 17,084.7 / 680 = 25 D.U.  
 PROPOSED D.U. = 9 x 25 OK

**FRONT YARD:**  
 (ZR 23-23) NO FRONT YARD REQUIRED  
 PROPOSED FRONT YARD = 4'-0" OK

**SIDEYARDS**  
 (ZR 23-23) SIDE YARDS = 0'-0" OR 8'-0" MIN. IF ANY  
 PROPOSED SIDEYARDS = 0'-0" OK

**REAR YARD:**  
 (ZR 23-47) MIN. REQUIRED REAR YARD = 30'-0",  
 PROPOSED REAR YARD = 31'-0"

**PERMITTED HEIGHT AND SETBACK:**  
 ZR 34-24--(ZR 23-633(d))  
 MIN BASE HEIGHT = 60'-0"  
 MAX BASE HEIGHT = 65'-0"  
 MAX BLDG HEIGHT = 80'-0"  
 SETBACK BEYOND BASE HEIGHT = 15'-0"

**PROPOSED BASE HEIGHT = 42'-6"**  
**PROPOSED BASE HEIGHT = 42'-6"**  
**PROPOSED BLDG HEIGHT = 42'-6"**  
**PROPOSED SETBACK = N/R**

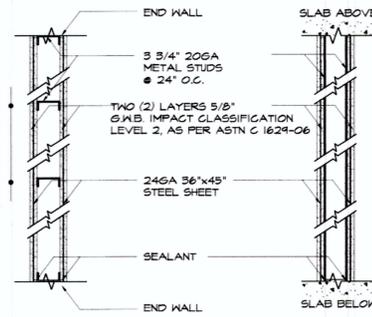
**REQUIRED PARKING:**  
 (ZR 23-23) RESIDENTIAL R7A, REQUIRED PARKING = 50 % OF PROPOSED D.U.  
 PROPOSED D.U. = 0.5 x 9 = 4.5 = 5 SPACES REQUIRED  
 (ZR 25-26) WAIVER FOR DEVELOPMENTS OR ENLARGEMENTS  
 ZONING DISTRICT R7A, MIN # OF PARKING SPACES WAIVED = 5 SPACES  
 REQUIRED = 5 = 5, THEREFORE RESIDENTIAL PARKING IS WAIVED  
 NO PARKING PROPOSED

**BICYCLE PARKING:**  
 (ZR 25-81) FOR ENCLOSED BICYCLE PARKING SPACE:  
 U6-2 RESIDENTIAL 1 per 2 D.U. PROPOSED UNITS = 9 / 2 = 4.5 = 5 SPACES REQUIRED  
 BUT WHEN BUILDINGS CONTAINING LESS THAN 10 U.U.  
 BICYCLE PARKING IS WAIVED

**SPECIAL INSPECTIONS**

- SPECIAL INSPECTION ITEMS:**
- STRUCTURAL STEEL - WELDING
  - STRUCTURAL STEEL - ERECTION & BOLTING
  - STRUCTURAL COLD-FORMED STEEL
  - CONCRETE - CAST-IN-PLACE
  - MASONRY
  - SOILS - SITE PREPARATION
  - SOILS - INVESTIGATIONS (BORINGS/TEST PITS)
  - UNDERPINNING
  - MECHANICAL SYSTEMS
  - EXCAVATION - SHEETING, SHORING, AND BRACING
  - SITE STORM DRAINAGE DISPOSAL AND DETENTION SYSTEM INSTALLATION
  - FIRESTOP, DRAFTSTOP, AND FIREBLOCK SYSTEMS
  - SEISMIC ISOLATION SYSTEMS
  - CONCRETE TEST CYLINDERS
  - CONCRETE DESIGN MIX
- PROGRESS INSPECTION ITEMS:**
- FOOTING AND FOUNDATION
  - ENERGY CODE COMPLIANCE INSPECTIONS

**PROPOSED NEW BUILDING (9 D.U.)**



- (I) PRESCRIPTIVE STUD AND WALL BOARD ASSEMBLY. A COMPLIANT WALL ASSEMBLY SHALL BE SUBSTANTIALLY IDENTICAL TO AND SHALL PROVIDE AN IMPACT RESISTANCE EQUIVALENT TO OR EXCEEDING THE PERFORMANCE OF ONE (1) OF THE FOLLOWING:
- (II) MATERIALS. IMPACT RESISTANT WALL BOARD SHEATHED ON THE INTERIOR SURFACE OF THE EXIT ENCLOSURE WALL ASSEMBLY SHALL BE TESTED BY AN APPROVED TESTING AGENCY. THE WALL BOARD USED AS THE INTERIOR FACE PANEL SHALL BE LISTED BY AN APPROVED AGENCY TO ASTM C 1629-06. STANDARD CLASSIFICATION FOR ABUSE-RESISTANT NONDECORATED INTERIOR GYPSUM PANEL PRODUCTS AND FIBER-REINFORCED CEMENT PANELS, IMPACT CLASSIFICATION LEVEL 2, AND THE BASE LAYER PANEL SHALL BE A MINIMUM 5/8 INCH (16 MM) GYPSUM WALL BOARD.
- WALL BOARD APPLIED TO THE INTERIOR SURFACE OF THE EXIT ENCLOSURE WALL SHALL NOT REDUCE THE CLEAR WIDTH OF THE EXIT STAIRS BELOW THAT REQUIRED FOR MEANS OF EGRESS BY CHAPTER 10 OF THE BUILDING CODE.
- (III) ASSEMBLY. THE WALL ASSEMBLY SHALL BE AT MIN TWO-HOUR FIRE RESISTANCE RATED.
- (IV) INSTALLATION SHALL COMPLY WITH THE FOLLOWING:
- (A) STUDS SHALL BE MINIMUM 3/4 INCH (19 MM) DEPTH COLD-FORMED STEEL FRAMING, AT LEAST 3 MILS THICK (20 GAUGE); (B) VERTICAL STUDS SHALL BE SPACED AT A MAX. DISTANCE OF 24 IN. (610 MM), ON CENTER.
- (C) RUNNERS SHALL BE SECURELY ATTACHED AT THE FLOOR AND CEILING TO STRUCTURAL ELEMENT MEMBERS AND SHALL COMPLY WITH THE STRUCTURAL REQUIREMENTS OF THE BUILDING CODE.
- (D) WALL BOARDS SHALL BE ATTACHED WITH NO. 8 SELF-DRILLING BUGLE-HEAD SCREWS, 12 INCHES (305 MM), ON CENTER MAXIMUM, WITH A MINIMUM DEPTH OF 5/8 INCH (16 MM) PENETRATION INTO THE WALL CAVITY.
- (E) JOINTS BETWEEN ADJOINING SHEETS OF WALL BOARD SHALL BE STAGGERED FROM BASE LAYER WITH FACE PANEL LAYER.

**NOTE:** AUTOMATIC FIRE ALARM SYSTEM WITHOUT ALARM NOTIFICATION APPLIANCES SHALL BE PROVIDED THROUGHOUT THE BUILDING. FIRE ALARM SYSTEM FILED SEPARATELY

**ZR 23-03, ZR26-41 & ZR 28-12 - TREE PLANTING**  
 STREET FRONTAGE = 49'-6 1/4" / 25 = 2 TREES,  
 TWO (2) TREES REQUIRED, TWO (2) TREES PROPOSED. EXACT LOCATION TO BE DETERMINED BY THE DEPARTMENT OF PARKS & RECREATION. PLANT SAWTOOTH OAK OR SHINGLE OAK. PROVIDE TREE PIT 5'-0" x 10'-0" AS PER NYC PARKS DEPARTMENT.

**PROBE NOTE:** OWNER TO HIRE PROFESSIONAL ENGINEER TO FILE STRUCTURAL DRAWINGS

**ABBREVIATIONS**

@	AT	LIN	LINEN
BD	BOARD	MTL	METAL
C.B.	CONCRETE BLOCK	RD	ROOF DRAIN
CL	CLOSET	RM	ROOM
CONC.	CONCRETE	S	SINK
DR	DRAIN	S.F.	SQUARE FEET
DN	DOWN	SHT.	SHEET
D.U.	DWELLING UNIT	STL	STEEL
DWG.	DRAWING	TYP.	TYPICAL
F.P.S.C.	FIRE PROOF SELF CLOSING W/	W	WITH
FT.	FOOT (FEET)	W.C.	WATER CLOSET
GYP.	GYPSUM	WD	WOOD
LAV.	LAVATORY	WD	WASHER / DRYER
GH	GREEN HOUSE	W.M.	WASHING MACHINE

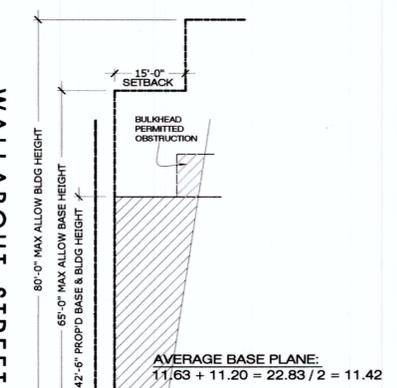
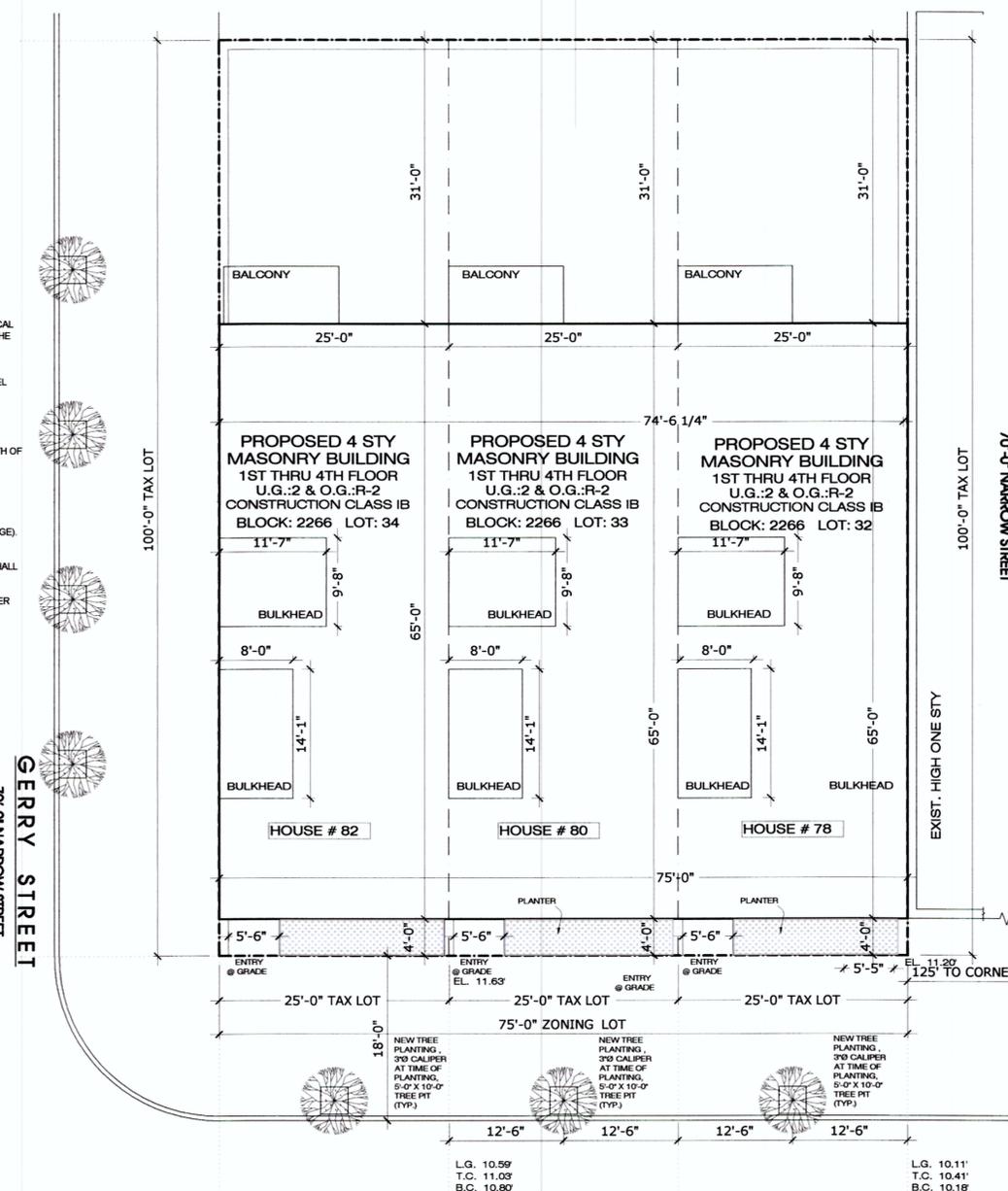
**SEPERATE APPLICATIONS**

- SPRINKLERS
- BUILDERS PAVEMENT PLAN
- MECHANICAL
- STRUCTURES
- FIRE ALARM

**DRAWING LIST**

- A - 001.00 SITE PLAN & ZONING ANALYSIS
- A - 002.00 CELLAR FLOOR PLANS
- A - 003.00 FIRST FLOOR PLANS
- A - 004.00 SECOND FLOOR PLANS
- A - 005.00 THIRD FLOOR PLANS
- A - 006.00 FOURTH FLOOR PLANS
- A - 007.00 ROOF PLANS
- A - 008.00 SECTIONS
- A - 009.00 SECTIONS
- A - 010.00 ELEVATIONS
- A - 011.00 RISERS & SCHEDULES
- EN - 001.00 ENERGY COMPLIANCE REPORT
- EN - 002.00 ENERGY COMPLIANCE REPORT

**ZR 23-03, ZR26-41 & ZR 28-12 - TREE PLANTING**  
 STREET FRONTAGE = 25'-0" / 25 = 1 TREE,  
 ONE (1) TREE REQUIRED, ONE (1) TREE EXISTING ON SITE AND  
 ONE (1) TREE PROPOSED. EXACT LOCATION TO BE  
 DETERMINED BY THE DEPARTMENT OF PARKS &  
 RECREATION. PLANT SAWTOOTH OAK OR SHINGLE OAK.  
 PROVIDE TREE PIT 5'-0" x 10'-0" AS PER NYC PARKS  
 DEPARTMENT.



**HEIGHT & SETBACK (ZR 23-633(d))**

SCALE 1/16" = 1'-0"

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**PROJECT TITLE**  
 NEW BUILDING  
 THROOP AVE  
 BROOKLYN, NY

**DRAWING TITLE**  
 SITE PLAN  
 ZONING  
 NOTES  
 SCALE: AS NOTED

**RELEASE STATUS OF DRAWING**

<input type="checkbox"/> SCHEMATIC DESIGN	ISSUED:
<input type="checkbox"/> DESIGN DEVELOPMENT	
<input type="checkbox"/> PROGRESS PRINT	
<input type="checkbox"/> PARTIAL RELEASE	
<input type="checkbox"/> FULL RELEASE	
<input type="checkbox"/> REVISION	

**SEAL & SIGNATURE**

**DATE** 1/27/12

**PROJECT No** 003-12

**DRAWING BY**

**CHECKED BY**

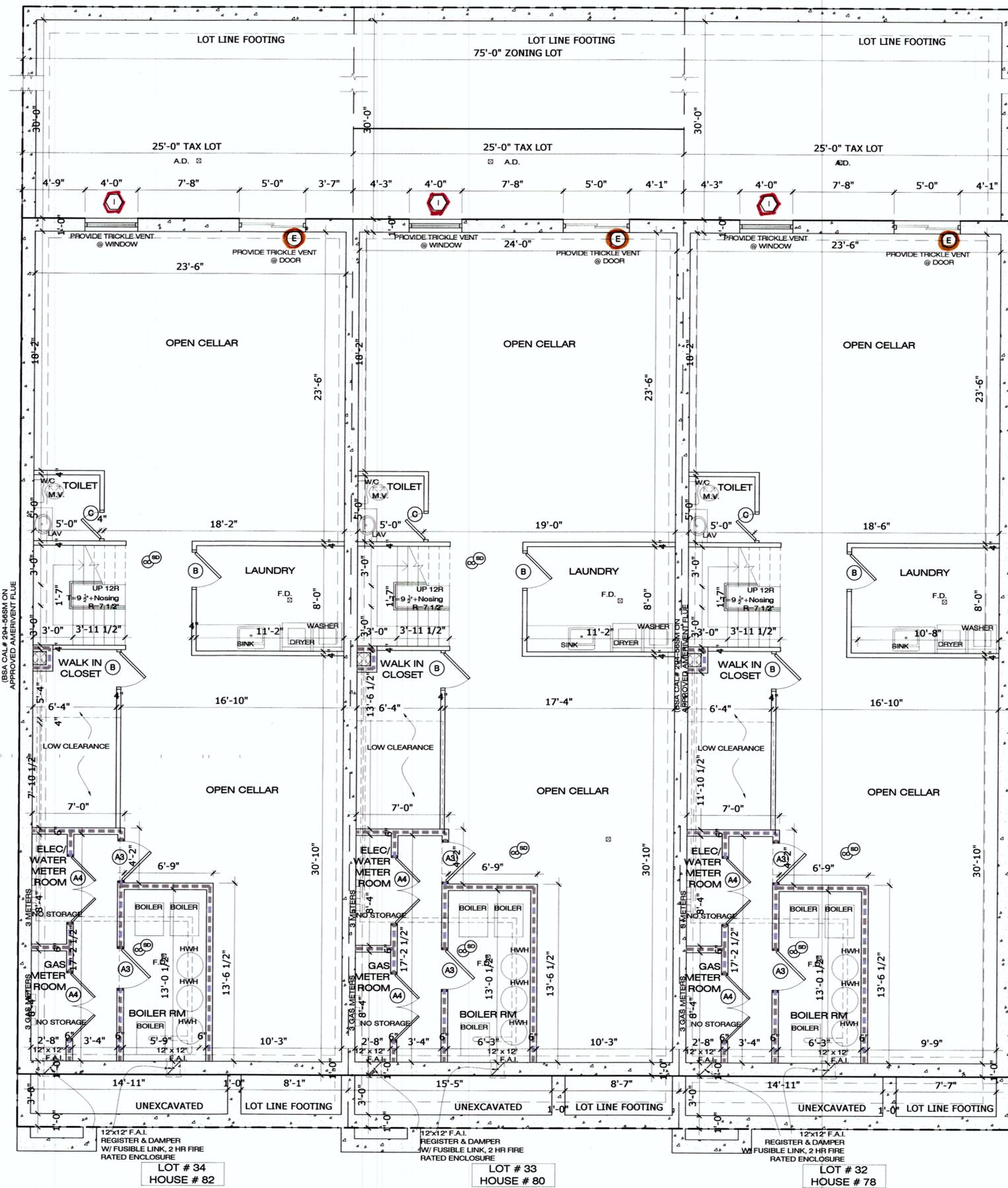
**DWG No** 1 OF 11

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**TABLE 601**  
**FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (hours)**

BUILDING ELEMENT	TYPE I		TYPE II		TYPE III		TYPE IV HT	TYPE V <sup>1</sup>	
	A	B	A <sup>2</sup>	B	A <sup>2</sup>	B		A <sup>2</sup>	B
Structural frame <sup>a</sup> Including columns, girders, trusses	3 <sup>2</sup>	2 <sup>2</sup>	1	0	1	0	HT	1	0
Bearing walls Exterior <sup>b,c</sup> Interior	3	2	1	0	2	2	2	1	0
Nonbearing walls and partitions Exterior					See Table 602				
Nonbearing walls and partitions Interior <sup>d</sup>	0	0	0	0	0	0	See Section 602.4.6	0	0
Floor construction <sup>b</sup> Including supporting beams and joists	2	2	1	0	1	0	HT	1	0
Roof construction Including supporting beams and joists	1 1/2 <sup>c</sup>	1 <sup>c</sup>	1 <sup>c</sup>	0 <sup>c</sup>	1 <sup>c</sup>	0	HT	1 <sup>c</sup>	0



- BOILER ROOM NOTES**
1. ANY CHANGE OF HEATING APPARATUS TO BE FILED PRIOR TO INSTALLATION.
  2. GAS VENT TO BE AMERVENT FLUE BSA CAL# 204-565M
  3. PROVIDE MASONRY FOUNDATION UNDER AMERVENT FLUE.
  4. PROVIDE MINIMUM 18" CLEARANCE BETWEEN BOILERS & ENCLOSING WALL OR PARTITIONS. PROVIDE 3'-0" CLEARANCE IN FRONT OF BOILER FURNACE FOR MAINTENANCE.
  5. PROVIDE 4" CONCRETE SLAB, ELECTRIC LIGHT & FLOOR DRAIN IN BOILER ROOM.
  6. PROVIDE TWO (2) LAYERS 5/8" SHEETROCK, TYPE 'X' ON THE CEILING.
  7. REFER TO LEGEND FOR BOILER ROOM ENCLOSURE PARTITIONS.
  8. NO METERS, DRAINWATER SHAFTS, ELEVATOR SHAFTS, INTERIOR STAIR OR REQUIRED OUTSIDE CELLAR ENTRANCE TO BE LOCATED WITHIN BOILER ROOM.
  9. BOILER ROOM DOOR TO BE ONE (1-HR) TEST FIREPROOF SELF-CLOSING, BOARD OF STANDARDS & APPEALS APPROVED TYPE.
  10. NO STORAGE PERMITTED WITHIN BOILER ROOM. 11. PROVIDE 12X12" FIXED REGISTER WITH B.S.A. APPROVED TYPE FIRE DAMPER WITH FUSIBLE LINK. 12. INSTALLATION OF EQUIPMENT SHALL COMPLY WITH B.S.A./M.E.A. APPROVAL, BUILDING CODE REQUIREMENTS, DEPARTMENT OF BUILDINGS RULES & REGULATION, AND MANUFACTURER'S SPECIFICATIONS (LATEST EDITION).

CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION  
 OCCUPANCY CLASSIFICATION  
 RESIDENTIAL R-2

TABLE 503 - 2008 NYC CONSTRUCTION CODE  
 ALLOWABLE HEIGHT & BUILDING AREA  
 GROUP R-2 & TYPE OF CONSTRUCTION IIA  
 -> 6 STORIES AND U.L. S.F.

BC 1009.1 - 2008 NYC CONSTRUCTION CODE  
 STAIRWELL WIDTH, NOT LESS THAN 44" BUT, EXCEPTIONS:  
 1. NOT LESS THAN 36"  
 1.2 WHEN R-2 OCCUPANCY % LESS THAN 12% HEIGHT AND  
 LESS THAN 30 OCCUPANTS PER FLOOR

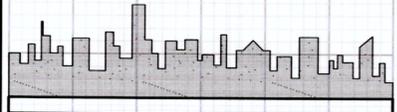
**HOT WATER HEATER**  
 MANUF: AO SMITH : PG230246  
 MEA # 182-78-E VOLII  
 CAPACITY = 75,000 BTU'S

**BOILER**  
 MANUF: BURNHAM, MODEL : ALP080  
 MEA # 77-07-E  
 CAPACITY = 80,000 BTU'S  
 MIN. EFFICIENCY REQUIREMENT AS PER 503.2.3(5)  
 BOILER < 300,000 BTU, GAS FIRED -> MIN EFFICIENCY = 80% AFUE  
 PROPOSED UNIT EFFICIENCY = 95% AFUE  
**THERMOSTATIC CONTROLS (TYPICAL TO ALL FLOORS)**  
 THE SUPPLY OF HEATING AND/OR COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE

**CELLAR FLOOR PLAN**

SCALE: 1/4"=1'-0"  
 ENTIRE BUILDING TO BE FULLY SPRINKLERED

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THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

PROJECT TITLE  
**NEW BUILDING**  
 THROOP AVE  
 BROOKLYN, NY

DRAWING TITLE  
**CELLAR FLOOR PLANS**

SCALE : AS NOTED

RELEASE STATUS OF DRAWING	ISSUED:
<input type="checkbox"/> SCHEMATIC DESIGN	_____
<input type="checkbox"/> DESIGN DEVELOPMENT	_____
<input type="checkbox"/> PROGRESS PRINT	_____
<input type="checkbox"/> PARTIAL RELEASE	_____
<input type="checkbox"/> FULL RELEASE	_____
<input type="checkbox"/> REVISION	_____

SEAL & SIGNATURE

DATE 12/20/11

PROJECT No 003-12

DRAWING BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_

DWG No 2 OF 11

**A-**  
**001.00**

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ARCHITECT AND APPROVED BY THE DEPARTMENT OF BUILDINGS

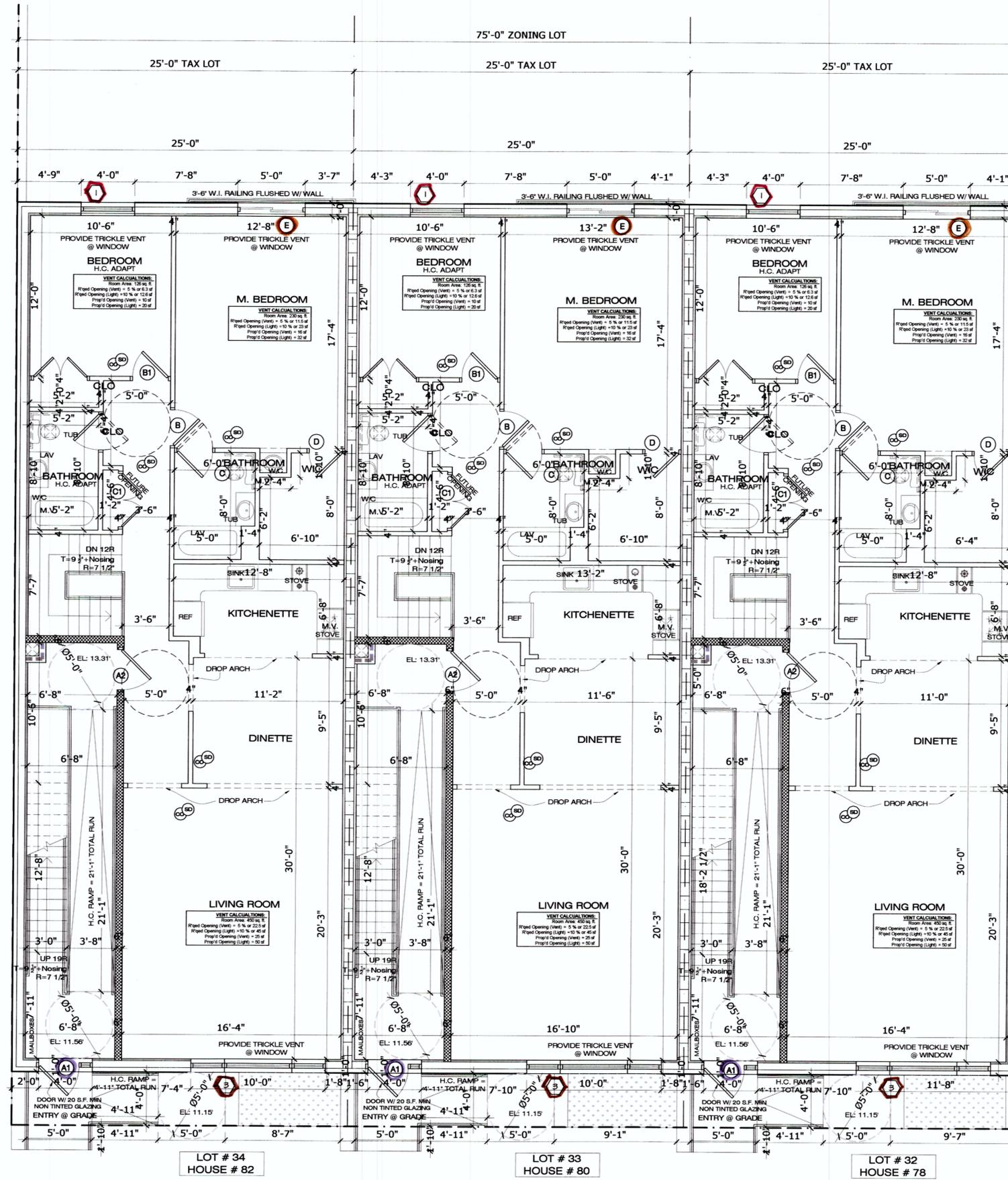
BSA CAL# 204-565M ON APPROVED AMERVENT FLUE

3 METERS

LOT # 34  
HOUSE # 82

LOT # 33  
HOUSE # 80

LOT # 32  
HOUSE # 78



**FIRST FLOOR PLAN**  
SCALE: 1/4"=1'-0"

THERMOSTATIC CONTROLS (TYPICAL TO ALL FLOORS)  
THE SUPPLY OF HEATING AND/OR COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE

ENTIRE BUILDING TO BE FULLY SPRINKLERED

**STAIR NOTES: (ALL STAIRS COMPLY WITH BC 1009)**  
 1. MIN. TREAD = 9 1/2", MAX. RISER = 7 3/4"  
 2. PROVIDE HANDRAILS AS FOLLOWS:  
 - 1 5/8"Ø PIPE RAILING @ WALLS  
 - 2-1 5/8"Ø PIPE RAILS BETWEEN NEWEL POST  
 3. THE MIN. HEADROOM IN ALL PARTS OF THE STAIR ENCLOSURE SHALL NOT BE LESS THAN 6'-8" MEASURED VERTICALLY FROM TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OR PLATFORM.  
 4. STAIR TO BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS

BC 1018 - 2008 NYC CONSTRUCTION CODE  
 NUMBER OF EXITS, MINIMUM # OF EXITS FOR SPACES WITH OCCUPANT LOAD OF 1-500 PERSONS -> 2 EXITS REQUIRED BUT AS PER TABLE 1018.2, OCCUPANCY R-2, NOT EXCEEDING 6 STORIES IN HEIGHT AND 2,000 S.F. PER FLOOR, ONE EXIT PER FLOOR IS PERMITTED

CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION  
 OCCUPANCY CLASSIFICATION  
 RESIDENTIAL R-2

TABLE 503 - 2008 NYC CONSTRUCTION CODE  
 ALLOWABLE HEIGHT & BUILDING AREA  
 GROUP R-2 & TYPE OF CONSTRUCTION IIIA  
 -> 6 STORIES AND U.L.S.F.

BC 1009.1 - 2008 NYC CONSTRUCTION CODE  
 STAIRWELL WIDTH, NOT LESS THAN 44" BUT, EXCEPTIONS:  
 1. NOT LESS THAN 36"  
 1.2 WHEN R-2 OCCUPANCY % LESS THAN 125' HEIGHT AND LESS THAN 30 OCCUPANTS PER FLOOR

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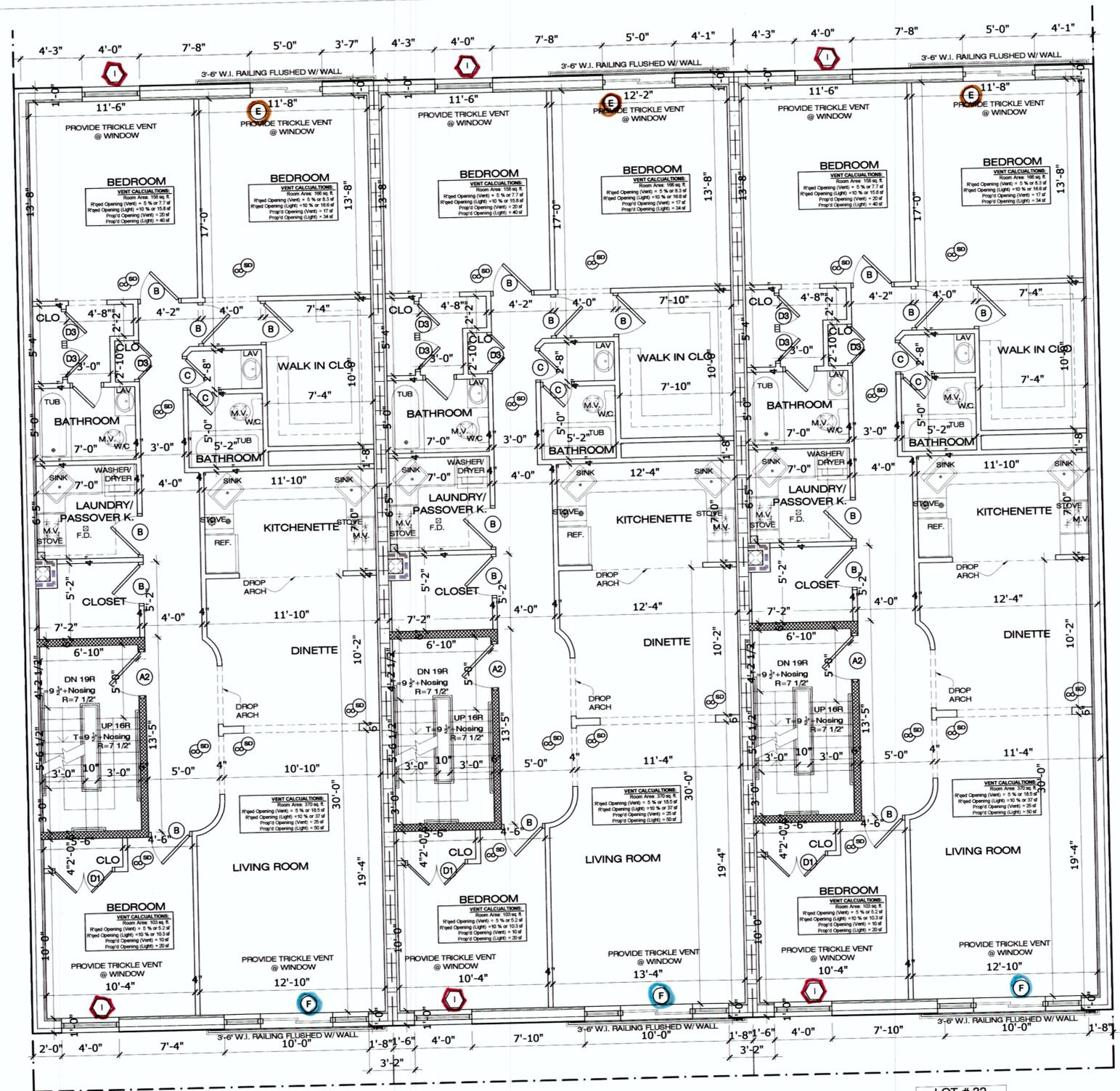
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PROJECT TITLE  
**NEW BUILDING**  
 THROOP AVE  
 BROOKLYN, NY

DRAWING TITLE  
**FIRST FLOOR PLANS**  
 SCALE : AS NOTED

RELEASE STATUS OF DRAWING	ISSUED:
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<input type="checkbox"/> FULL RELEASE	
<input type="checkbox"/> REVISION	

SEAL & SIGNATURE  
  
 DATE 12/20/11  
 PROJECT No 003-12  
 DRAWING BY  
 CHECKED BY  
 DWG No 3 OF 11  
**A-**  
**002.00**



**PANOS VIKATOS R.A.**  
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 LITTLE NECK HILLS, NY 11362  
 (917) 412-7105 PVARCHITECT@GMAIL.COM

THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

**PROJECT TITLE**  
**NEW BUILDING**  
 THROOP AVE  
 BROOKLYN, NY

**DRAWING TITLE** STICKER  
**SECOND FLOOR PLANS**  
 SCALE : AS NOTED

**RELEASE STATUS OF DRAWING** ISSUED:  
 SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 PROGRESS PRINT  
 PARTIAL RELEASE  
 FULL RELEASE  
 REVISION

**SEAL & SIGNATURE** DATE 12/20/11

PROJECT No 003-12  
 DRAWING BY

CHECKED BY  
 DWG No 4 OF 11

**A-**  
**003.00**

**THERMOSTATIC CONTROLS (TYPICAL TO ALL FLOORS)**  
 THE SUPPLY OF HEATING AND/OR COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE

ENTIRE BUILDING TO BE FULLY SPRINKLERED

**SECOND FLOOR PLAN**  
 SCALE: 1/4"=1'-0"

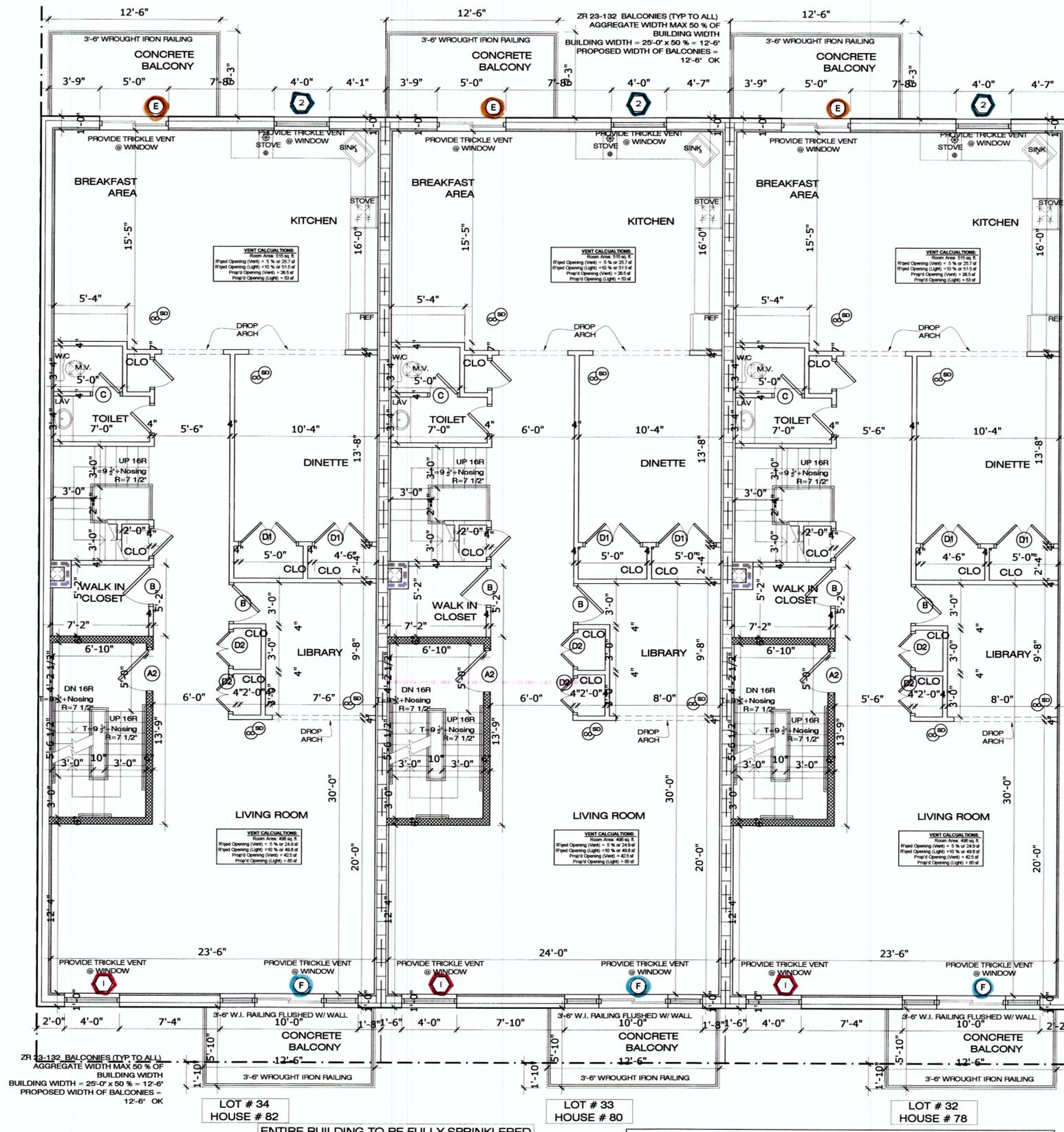
**STAIR NOTES: (ALL STAIRS COMPLY WITH BC 1009)**  
 1. MIN. TREAD = 9 1/2", MAX. RISER = 7 3/4"  
 2. PROVIDE HANDRAILS AS FOLLOWS:  
 - 1 5/8"Ø PIPE RAILING @ WALLS  
 - 2-1 5/8"Ø PIPE RAILS BETWEEN NEWEL POST  
 3. THE MIN. HEADROOM IN ALL PARTS OF THE STAIR ENCLOSURE SHALL NOT BE LESS THAN 6'-8" MEASURED VERTICALLY FROM TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OR PLATFORM  
 4. STAIR TO BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS

BC 1018 - 2008 NYC CONSTRUCTION CODE  
 NUMBER OF EXITS, MINIMUM # OF EXITS FOR SPACES WITH OCCUPANT LOAD OF 1-500 PERSONS -> 2 EXITS REQUIRED BUT AS PER TABLE 1018.2, OCCUPANCY R-2, NOT EXCEEDING 6 STORIES IN HEIGHT AND 2,000 S.F. PER FLOOR, ONE EXIT PER FLOOR IS PERMITTED

CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION  
 OCCUPANCY CLASSIFICATION  
 RESIDENTIAL R-2  
 TABLE 503 - 2008 NYC CONSTRUCTION CODE  
 ALLOWABLE HEIGHT & BUILDING AREA  
 GROUP R-2 & TYPE OF CONSTRUCTION IIA  
 => 6 STORIES AND U.L. S.F.

BC 1009.1 - 2008 NYC CONSTRUCTION CODE  
 STAIRWELL WIDTH, NOT LESS THAN 44" BUT, EXCEPTIONS:  
 1. NOT LESS THAN 36"  
 1.2 WHEN R-2 OCCUPANCY % LESS THAN 125' HEIGHT AND LESS THAN 30 OCCUPANTS PER FLOOR

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ARCHITECT AND APPROVED BY THE DEPARTMENT OF BUILDINGS



**THIRD FLOOR PLAN**

SCALE: 1/4"=1'-0"

**STAIR NOTES: (ALL STAIRS COMPLY WITH BC 1009)**

1. MIN. TREAD = 9 1/2", MAX. RISER = 7 3/4"
2. PROVIDE HANDRAILS AS FOLLOWS:  
- 1 5/8" PIPE RAILING @ WALLS  
- 2-1 5/8" PIPE RAILS BETWEEN NEWEL POST
3. THE MIN. HEADROOM IN ALL PARTS OF THE STAIR ENCLOSURE SHALL NOT BE LESS THAN 6'-8" MEASURED VERTICALLY FROM TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OR PLATFORM.
4. STAIR TO BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS

BC 1018 - 2008 NYC CONSTRUCTION CODE  
NUMBER OF EXITS, MINIMUM # OF EXITS FOR SPACES WITH OCCUPANT LOAD OF 1-500 PERSONS -> 2 EXITS REQUIRED BUT AS PER TABLE 1018.2, OCCUPANCY R-2, NOT EXCEEDING 6 STORIES IN HEIGHT AND 2,000 S.F. PER FLOOR, ONE EXIT PER FLOOR IS PERMITTED

**THERMOSTATIC CONTROLS (TYPICAL TO ALL FLOORS)**  
THE SUPPLY OF HEATING AND/OR COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE

CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION  
OCCUPANCY CLASSIFICATION  
RESIDENTIAL R-2

TABLE 503 - 2008 NYC CONSTRUCTION CODE  
ALLOWABLE HEIGHT & BUILDING AREA  
GROUP R-2 & TYPE OF CONSTRUCTION IIA  
-> 6 STORIES AND U.L. S.F.

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STAIRWELL WIDTH, NOT LESS THAN 44" BUT, EXCEPTIONS:  
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**PROJECT TITLE**  
NEW BUILDING  
THROOP AVENUE  
BROOKLYN, NY

**DRAWING TITLE** STICKER  
THIRD FLOOR PLANS  
SCALE: AS NOTED

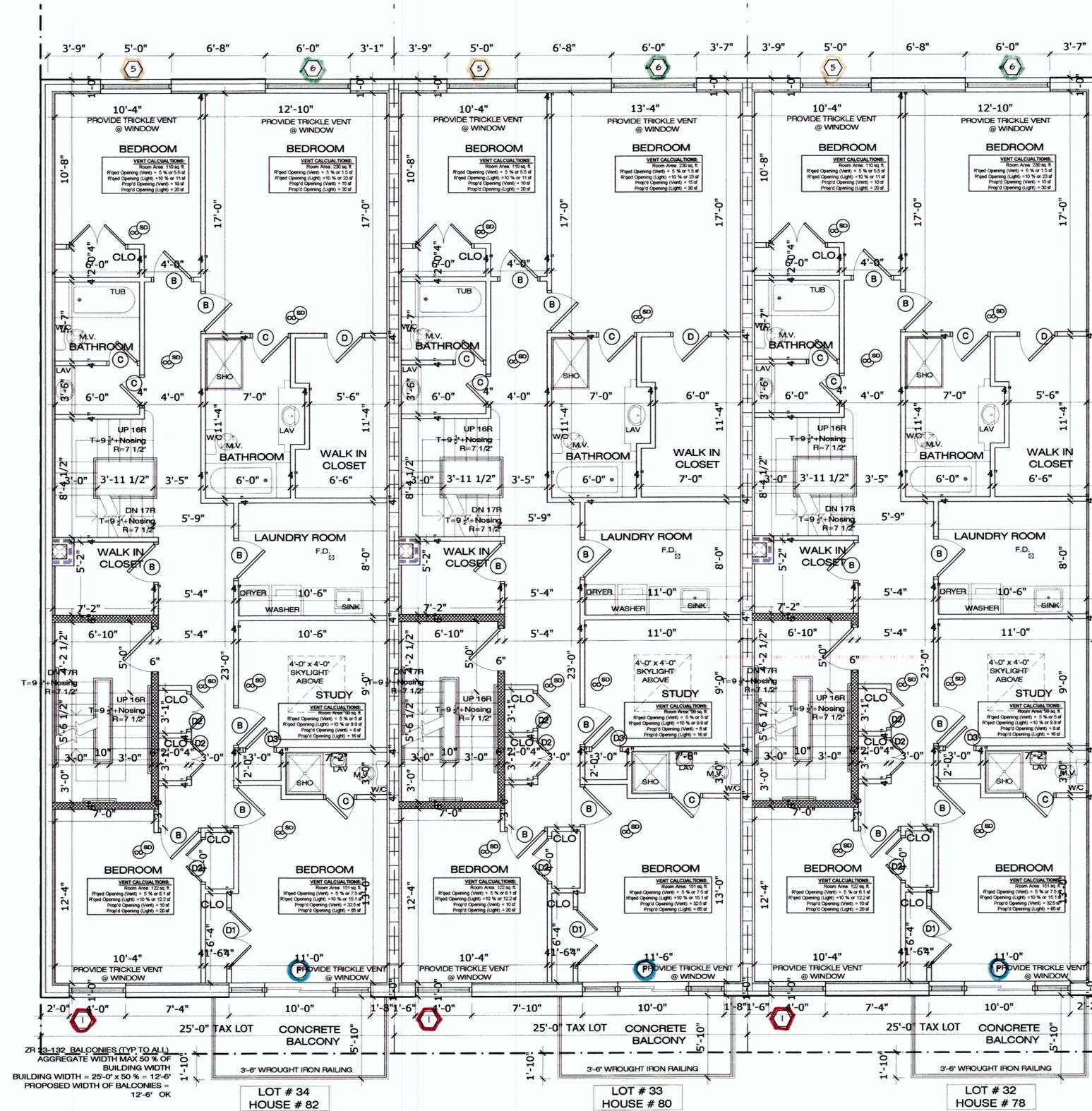
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 DESIGN DEVELOPMENT  
 PROGRESS PRINT  
 PARTIAL RELEASE  
 FULL RELEASE  
 REVISION

**SEAL & SIGNATURE** DATE 12/20/11

PROJECT No 003-12  
DRAWING BY  
CHECKED BY  
DWG No 5 OF 11

**A-**  
**004.00**

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ARCHITECT AND APPROVED BY THE DEPARTMENT OF BUILDINGS



ENTIRE BUILDING TO BE FULLY SPRINKLERED

**FOURTH FLOOR PLAN**  
SCALE: 1/4"=1'-0"

**STAIR NOTES: (ALL STAIRS COMPLY WITH BC 1009)**  
 1. MIN. TREAD = 9 1/2", MAX. RISER = 7 3/4"  
 2. PROVIDE HANDRAILS AS FOLLOWS:  
 - 1 5/8"Ø PIPE RAILING @ WALLS  
 - 2-1 5/8"Ø PIPE RAILS BETWEEN NEWEL POST  
 3. THE MIN. HEADROOM IN ALL PARTS OF THE STAIR ENCLOSURE SHALL NOT BE LESS THAN 6'-8" MEASURED VERTICALLY FROM TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OF PLATFORM.  
 4. STAIR TO BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS

BC 1018 - 2008 NYC CONSTRUCTION CODE  
 NUMBER OF EXITS, MINIMUM # OF EXITS FOR SPACES WITH OCCUPANT LOAD OF 1-500 PERSONS → 2 EXITS REQUIRED BUT AS PER TABLE 1018.2, OCCUPANCY R-2, NOT EXCEEDING 6 STORIES IN HEIGHT AND 2,000 S.F. PER FLOOR, ONE EXIT PER FLOOR IS PERMITTED

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 THE SUPPLY OF HEATING AND/OR COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE

CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION  
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 TABLE 503 - 2008 NYC CONSTRUCTION CODE  
 ALLOWABLE HEIGHT & BUILDING AREA  
 GROUP R-2 & TYPE OF CONSTRUCTION IIA  
 → 6 STORIES AND U.L. S.F.

BC 1009.1 - 2008 NYC CONSTRUCTION CODE  
 STAIRWELL WIDTH, NOT LESS THAN 44" BUT, EXCEPTIONS:  
 1. NOT LESS THAN 36"  
 1.2 WHEN R-2 OCCUPANCY % LESS THAN 12% HEIGHT AND LESS THAN 30 OCCUPANTS PER FLOOR

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PROJECT TITLE  
**NEW BUILDING**  
 THROOP AVE  
 BROOKLYN, NY

DRAWING TITLE  
**FOURTH FLOOR PLANS**

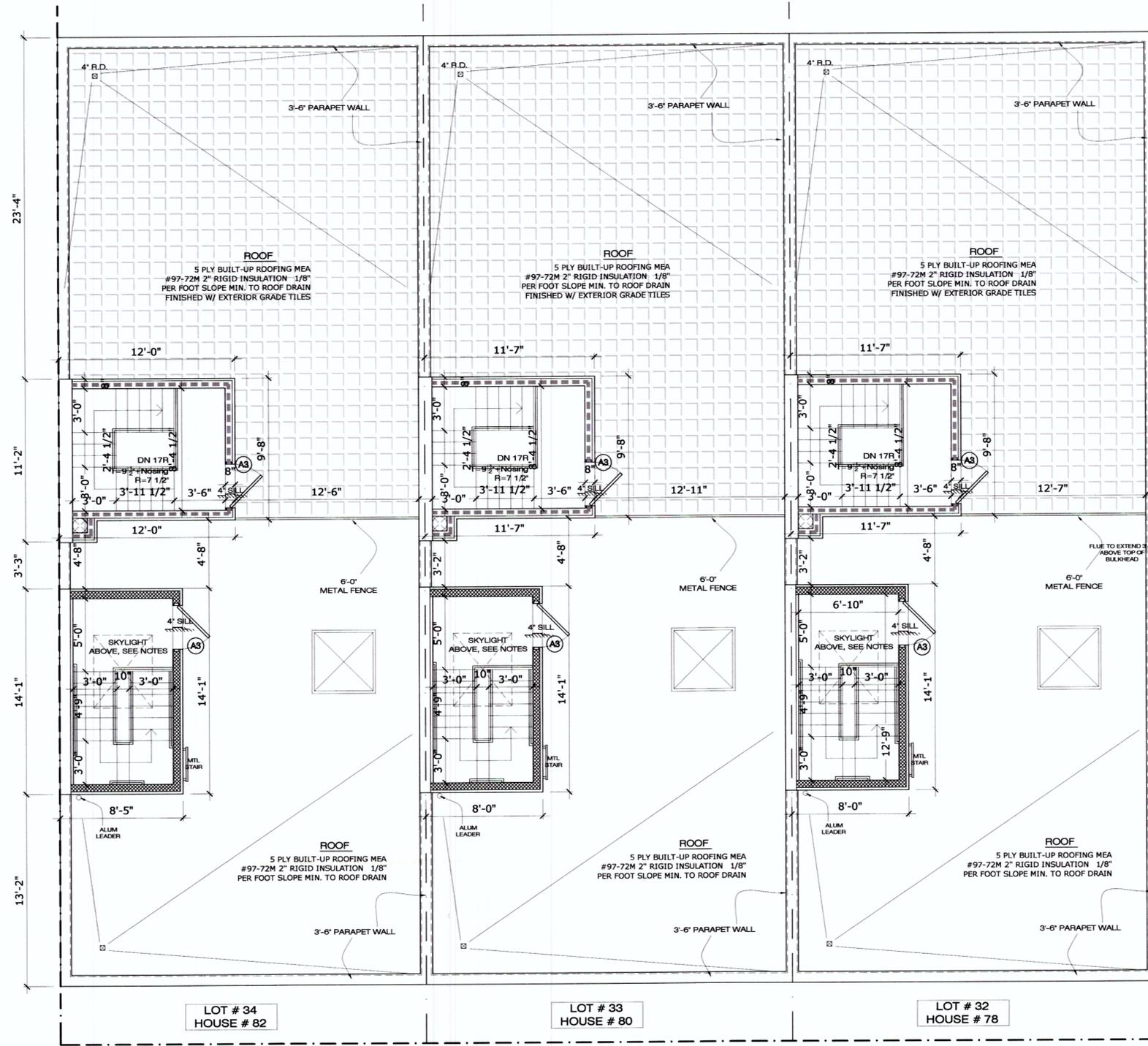
SCALE: AS NOTED

RELEASE STATUS OF DRAWING	ISSUED:
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<input type="checkbox"/> REVISION	_____

SEAL & SIGNATURE

DATE 12/20/11  
 PROJECT No 003-12  
 DRAWING BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 DWG No 6 OF 11  
**A-**  
**005.00**

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**ROOF PLAN**  
SCALE: 1/4"=1'-0"

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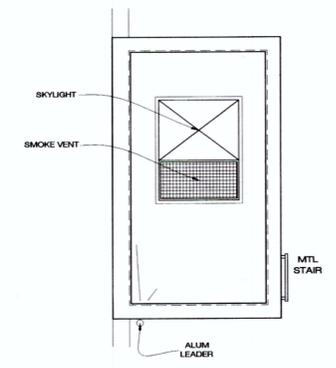
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PROJECT TITLE <b>NEW BUILDING</b>	
THROOP AVENUE BROOKLYN, NY	
DRAWING TITLE ROOF PLANS	STICKER
SCALE: AS NOTED	

RELEASE STATUS OF DRAWING	ISSUED:
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SEAL & SIGNATURE 	DATE 12/20/11
	PROJECT No 003-12
	DRAWING BY
	CHECKED BY
	DWG No 7 OF 11
	<b>A-</b>
	<b>006.00</b>

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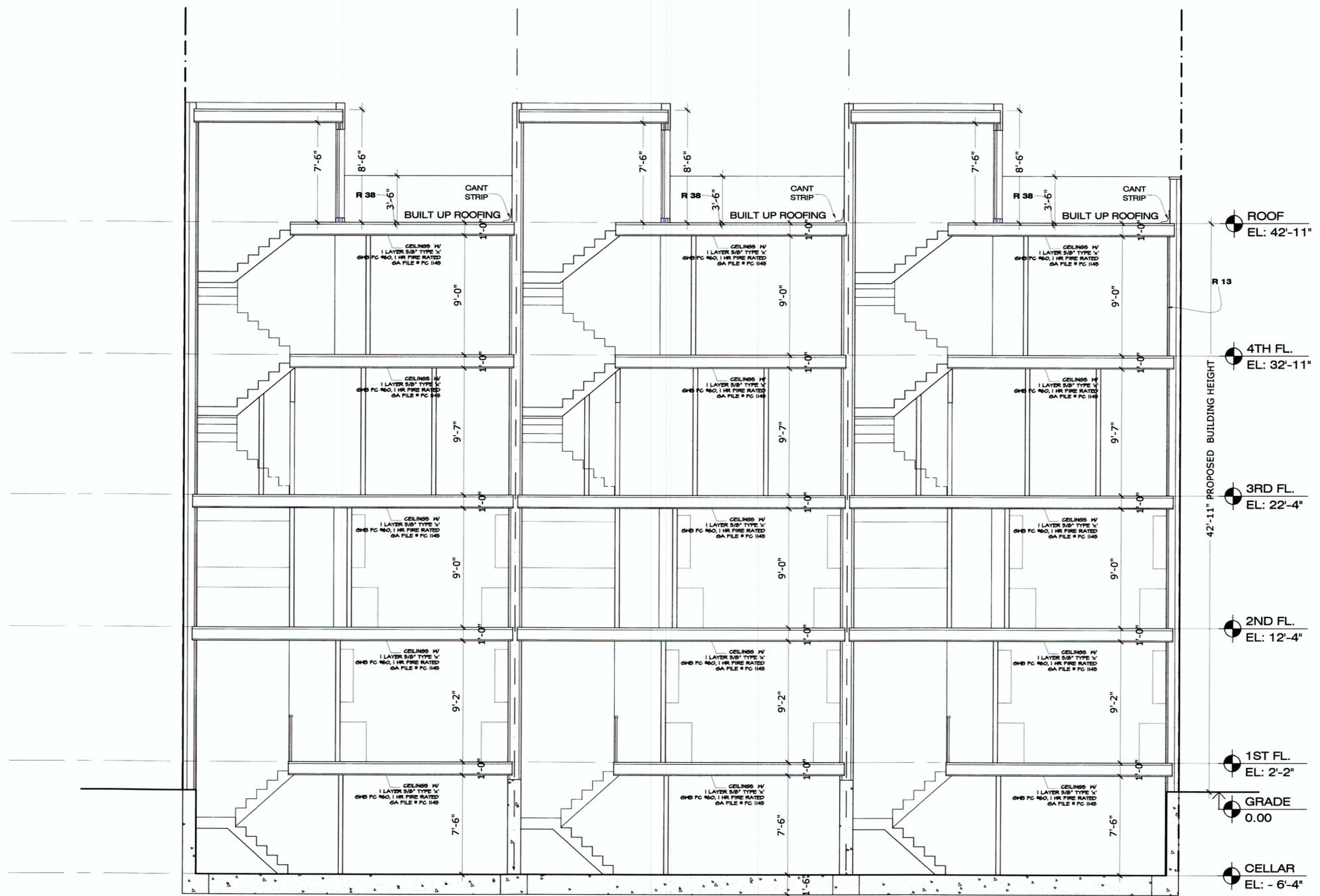


**SMOKE VENT CALCULATIONS AS PER BC 910.5**  
AREA OF SHAFT = 12'-9" x 6'-0" = 87.1 S.F.  
SMOKE VENT DIMENSION AS PER BC 910.5.2:  
87.1 x 0.035 = 3.1 S.F. OR 446.4 S.I.

PROPOSED 4'-0" x 5'-0" SKYLIGHT OF TOTAL AREA 20 S.F. OR 2,880 S.I.  
20 S.F. x 1/3 = 6.67 S.F. OR 960 S.I. > 72 S.I.  
THEREFORE 4'-0" x 2'-0" (8 S.F. OR 1152 S.I.) FIXED LOUVER TO SERVE AS SMOKE VENT  
THE REMAINING PORTION OF 4'-0" x 3'-0" TO BE A SKYLIGHT GLAZED WITH PLAIN GLASS NOT MORE THAN 1/8 INCH THICK OR WITH PLASTIC GLAZING

**BULKHEAD PLAN & SMOKE VENT DETAILS**  
SCALE: 1/4"=1'-0"

- ROOF DRAIN**  
SCALE: 3/4"=1'-0"
- CONTROLLED FLOW NOTES**
1. PROVIDE 3" BUILT-UP CONTROL-FLOW ROOF DRAIN; 2 ROOF DRAINS FOR 10,000 S.F. OR LESS OF ROOF AREA; 4 ROOF DRAINS FOR MORE THAN 10,000 S.F. OF ROOF AREA.
  2. THE WATER DEPTH ON THE ROOF SHALL NOT EXCEED 3" IN DEPTH, DURING A 10 YEAR REQUENCY STORM.
  3. FLASHING SHALL EXTEND AT LEAST 6" ABOVE THE ROOF LEVEL.
  4. SCUPPERS SHALL BE PLACED IN THE PARAPET WALL 4" ABOVE THE ROOF LEVEL.
  5. SEPERATE STORM & SANITARY DRAINAGE SYSTEMS WILL BE INSTALLED WITHIN THE BUILDING.



REFER TO STRUCTURAL DRAWINGS FOR DETAILED SIZE AND DEPTH OF FOUNDATION

REFER TO STRUCTURAL DRAWINGS FOR DETAILED SIZE AND DEPTH OF FOUNDATION

REFER TO STRUCTURAL DRAWINGS FOR DETAILED SIZE AND DEPTH OF FOUNDATION

REFER TO STRUCTURAL DRAWINGS FOR DETAILED SIZE AND DEPTH OF FOUNDATION

LOT # 34  
HOUSE # 82

LOT # 33  
HOUSE # 80

LOT # 32  
HOUSE # 78

**CROSS SECTION**  
SCALE: 1/4"=1'-0"

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PROJECT TITLE  
**NEW BUILDING**  
THROOP AVE  
BROOKLYN, NY

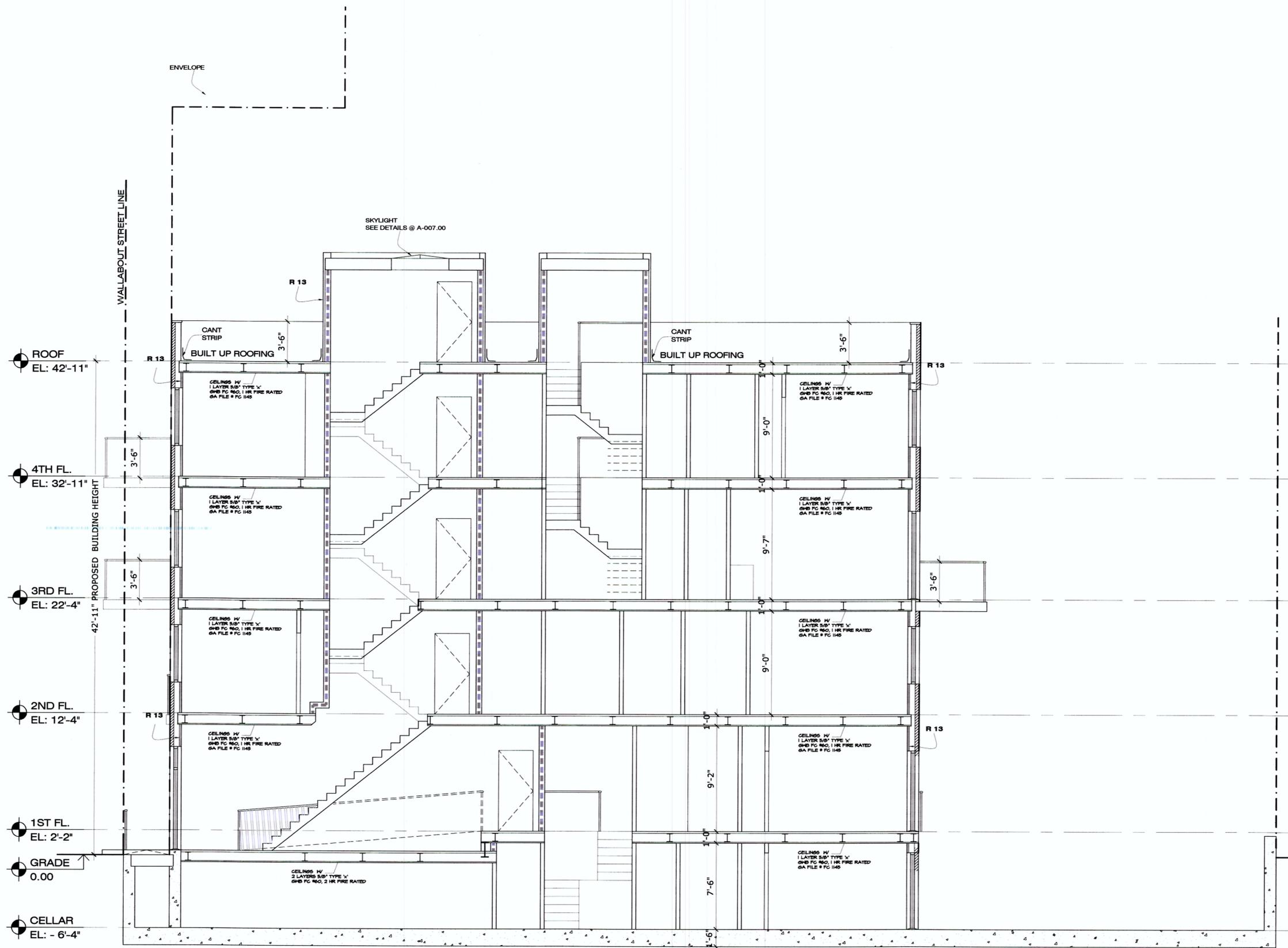
DRAWING TITLE  
CROSS SECTIONS

SCALE : AS NOTED

RELEASE STATUS OF DRAWING ISSUED:  
 SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 PROGRESS PRINT  
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 FULL RELEASE  
 REVISION

SEAL & SIGNATURE  
  
 DATE 12/20/11  
 PROJECT No 003-12  
 DRAWING BY  
 CHECKED BY  
 DWG No 8 OF 11  
**A-**  
**007.00**

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REFER TO STRUCTURAL DRAWINGS FOR DETAILED SIZE AND DEPTH OF FOUNDATION

**CROSS SECTION**

SCALE: 1/4"=1'-0"

REFER TO STRUCTURAL DRAWINGS FOR DETAILED SIZE AND DEPTH OF FOUNDATION

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PROJECT TITLE  
**NEW BUILDING**  
 THROOP AVE  
 BROOKLYN, NY

DRAWING TITLE  
**LONGITUDINAL SECTION**

STICKER

SCALE : AS NOTED

RELEASE STATUS OF DRAWING	ISSUED:
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<input type="checkbox"/> DESIGN DEVELOPMENT	_____
<input type="checkbox"/> PROGRESS PRINT	_____
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SEAL & SIGNATURE \_\_\_\_\_ DATE 12/20/11

PROJECT No 003-12

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CHECKED BY \_\_\_\_\_

DWG No 9 OF 11

**A-008.00**



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ROOF  
EL: 42'-11"  
 4TH FL.  
EL: 32'-11"  
 3RD FL.  
EL: 22'-4"  
 2ND FL.  
EL: 12'-4"  
 1ST FL.  
EL: 2'-2"  
 GRADE  
0.00  
 CELLAR  
EL: -6'-4"



**WALLABOUT STREET ELEVATION**

SCALE: 3/16"=1'-0"

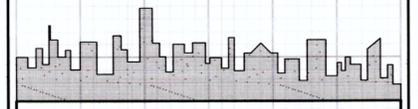
ROOF  
EL: 42'-11"  
 4TH FL.  
EL: 32'-11"  
 3RD FL.  
EL: 22'-4"  
 2ND FL.  
EL: 12'-4"  
 1ST FL.  
EL: 2'-2"  
 GRADE  
0.00  
 CELLAR  
EL: -6'-4"



**REAR ELEVATION**

SCALE: 3/16"=1'-0"

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PROJECT TITLE  
**NEW BUILDING**  
 THROOP AVE  
 BROOKLYN, NY

DRAWING TITLE  
**ELEVATIONS**

STICKER

SCALE : AS NOTED

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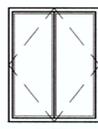
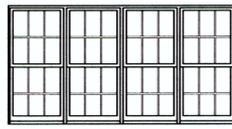


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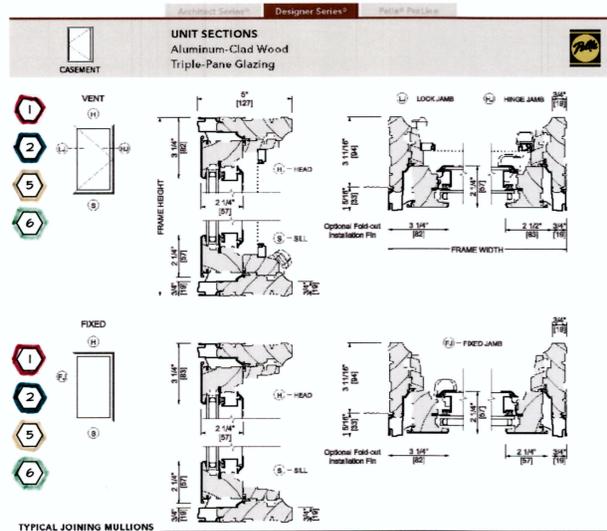
### WINDOW SCHEDULE

SCALE: NTS

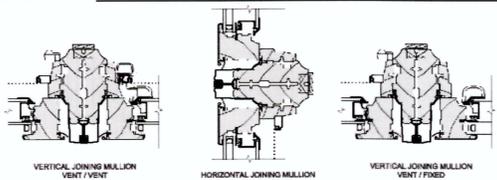
### WINDOW SCHEDULE

SYMBOL	SIZE	TYPE	MATERIAL	MANUF.	DESCRIPTION	U VALUE	SHGC	OTC	STC
1	50.75 x 59.75	2	ALUM CLAD	PELLA	2-WIDE CASEMENT	0.4	0.4	27	34
2	50.75 x 47.75	2	ALUM CLAD	PELLA	2-WIDE CASEMENT	0.4	0.4	27	34
3	116.75 x 59.75	1	ALUM CLAD	PELLA	4-WIDE DOUBLE HUNG	0.4	0.4	27	33
4	BLANK								
5	58.75 x 59.75	2	ALUM CLAD	PELLA	2-WIDE CASEMENT	0.4	0.4	27	34
6	70.75 x 59.75	2	ALUM CLAD	PELLA	2-WIDE CASEMENT	0.4	0.4	27	34

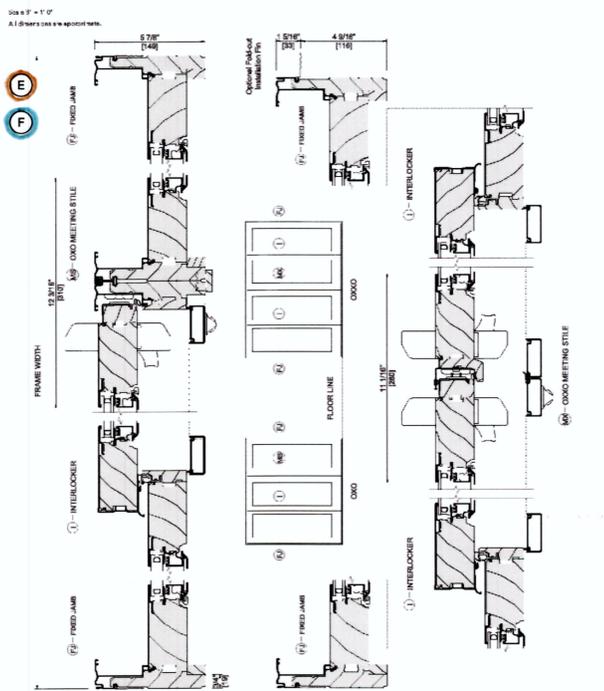
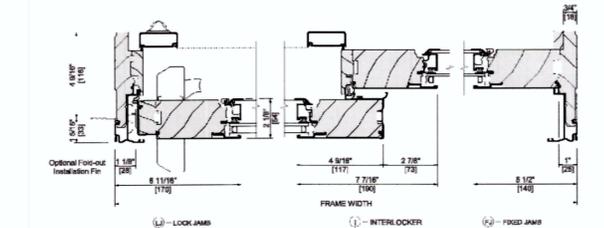
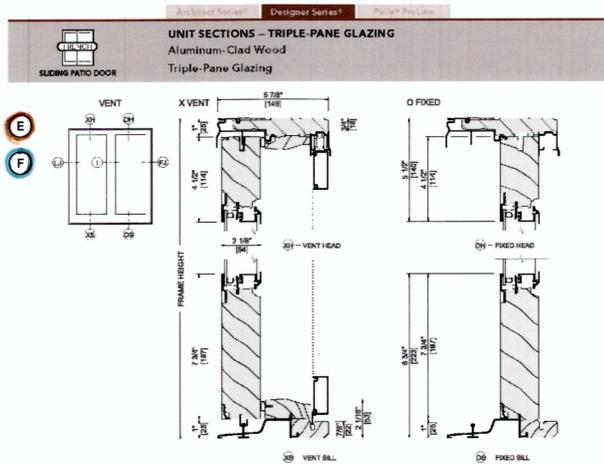
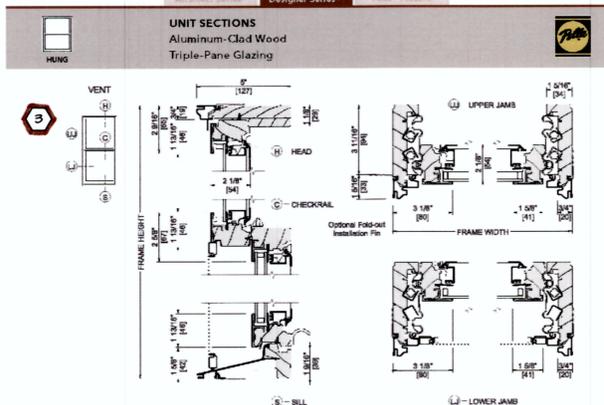
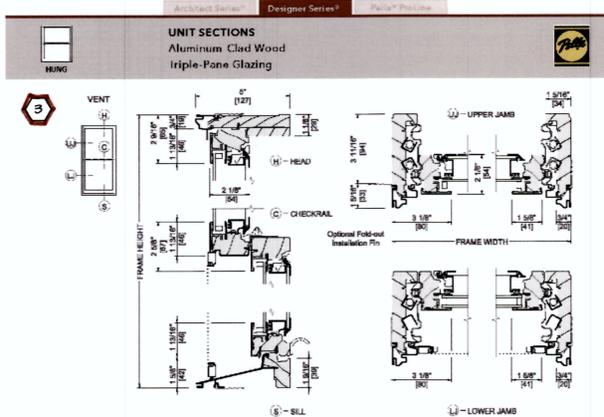
ALL WINDOWS TO BE EQUIPPED WITH TITON GLAZED IN VENTILATORS (TRICKLE VENT)



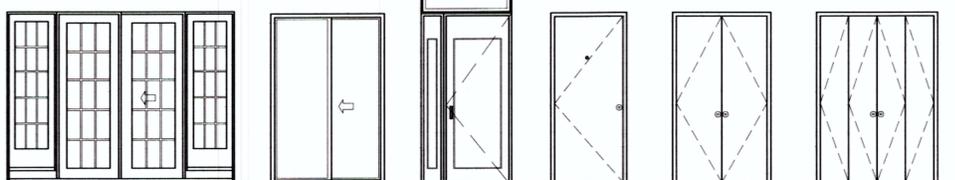
TYPICAL JOINING MULLIONS



Scale 1/2" = 1'-0"  
All dimensions are approximate



Scale 1/2" = 1'-0"  
All dimensions are approximate



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6

### DOOR SCHEDULE

SCALE: NTS

### DOOR SCHEDULE

SYMBOL	SIZE UNIT	MATERIAL	FRAME	SADDLE	TYPE	REMARKS	U VALUE	SHGC	STC	OTC
A1	54.75 x 94	GLASS/AL.	ALUM.	ALUM.	3	MAIN ENTRANCE - W/ 20 S.F. MIN. GLAZING	0.85	0.4	34	27
A2	3'-0" X 6'-8"	STEEL	STEEL	ALUM.	4	UNIT ENTRY - W/ PEEPHOLE & LOCK				
A3	3'-0" X 6'-8"	STEEL	STEEL	-	4	STAIRWELL / STORAGE / MECH				
A4	(2) 2'-0" X 7'-0"	STEEL	STEEL	-	3	METER ROOMS				
A5	3'-0" X 6'-8"	STEEL	STEEL	-	4					
C	2'-0" X 6'-8"	WOOD	-	-	-	TOILET / BATHROOM				
B	2'-8" X 6'-8"	WOOD	-	-	4	BEDROOM				
B1	21'-0" X 6'-8"	WOOD	-	-	4	H.C. BEDROOM				
C1	2'-10" X 6'-8"	WOOD	-	-	8	H.C. TOILET				
D	2'-0" X 6'-8"	WOOD	-	-	4	W.I.C.				
D1	(2) 1'-6" X 6'-8"	WOOD	-	-	5	CLOSET				
D2	(2) 2'-0" X 6'-8"	WOOD	-	-	5	CLOSET				
D3	1'-6" X 6'-8"	WOOD	-	-	4	LINEN				
E	60 x 82	GLASS/AL.	ALUM.	ALUM.	2	SLIDING FRENCH DOOR	0.55	0.4	33	27
F	121.75 x 80	GLASS/AL.	ALUM.	ALUM.	1	3-WIDE SLIDING FRENCH DOOR	0.55	0.4	33	27

**PANOS VIKATOS R.A.**  
249-33 BEECH KNOLL AVE  
LITTLE NECK HILLS, NY 11362  
(917) 412-7105 PVARCHITECT@GMAIL.COM

---

PROJECT TITLE  
**NEW BUILDING**  
THROOP AVE  
BROOKLYN, NY

---

DRAWING TITLE  
**WINDOW AND DOOR SCHEDULES**

SCALE: AS NOTED

---

RELEASE STATUS OF DRAWING ISSUED:

SCHEMATIC DESIGN

DESIGN DEVELOPMENT

PROGRESS PRINT

PARTIAL RELEASE

FULL RELEASE

REVISION

---

SEAL & SIGNATURE

DATE: 12/20/11

PROJECT No 018-11

DRAWING BY

CHECKED BY

DWG No 12 OF 12

**A-**  
**011.00**

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ARCHITECT AND APPROVED BY THE DEPARTMENT OF BUILDINGS

**ATTACHMENT B**  
**CITIZEN PARTICIPATION PLAN**

## **ATTACHMENT B**

### **CITIZEN PARTICIPATION PLAN**

The NYC Office of Environmental Remediation and Throop Wallabout Realty, LLC have established this Citizen Participation Plan because the opportunity for citizen participation is an important component of the NYC Voluntary Cleanup Program. This Citizen Participation Plan describes how information about the project will be disseminated to the Community during the remedial process. As part of its obligations under the NYC VCP, Throop Wallabout Realty, LLC will maintain a repository for project documents and provide public notice at specified times throughout the remedial program. This Plan also takes into account potential environmental justice concerns in the community that surrounds the project Site. Under this Citizen Participation Plan, project documents and work plans are made available to the public in a timely manner. Public comment on work plans is strongly encouraged during public comment periods. Work plans are not approved by the NYC Office of Environmental Remediation (OER) until public comment periods have expired and all comments are formally reviewed. An explanation of cleanup plans in the form of a public meeting or informational session is available upon request to OER's project manager assigned to this Site, Horace Zhang, who can be contacted about these issues or any others questions, comments or concerns that arise during the remedial process at (212) 442-6372.

**Project Contact List.** OER has established a Site Contact List for this project to provide public notices in the form of fact sheets to interested members of the Community. Communications will include updates on important information relating to the progress of the cleanup program at the Site as well as to request public comments on the cleanup plan. The Project Contact List includes owners and occupants of adjacent buildings and homes, principal administrators of nearby schools, hospitals and day care centers, the public water supplier that serves the area, established document repositories, the representative Community Board, City Council members, other elected representatives and any local Brownfield Opportunity Area (BOA) grantee organizations. Any member of the public or organization will be added to the Site Contact List on request. A copy of the Site Contact List is maintained by OER's project manager. If you would like to be added to the Project Contact List, contact NYC OER at (212) 788-8841 or by email at

[brownfields@cityhall.nyc.gov](mailto:brownfields@cityhall.nyc.gov).

**Repositories.** A document repository is maintained in the nearest public library that maintains evening and weekend hours. This document repository is intended to house, for community review, all principal documents generated during the cleanup program including Remedial Investigation plans and reports, Remedial Action work plans and reports, and all public notices and fact sheets produced during the lifetime of the remedial project. Throop Wallabout Realty, LLC will inspect the repositories to ensure that they are fully populated with project information. The repository for this project is:

Repository Name: Bushwick Library

Repository Address: 340 Bushwick Avenue, Brooklyn, NY

Repository Telephone Number: 718-602-1348

Repository Hours of Operation:

Mon	closed
Tue	10:00 AM - 6:00 PM
Wed	10:00 AM - 6:00 PM
Thu	1:00 PM - 8:00 PM
Fri	10:00 AM - 6:00 PM
Sat	10:00 AM - 5:00 PM
Sun	closed

**Digital Documentation.** NYC OER strongly encourages the use of digital documents in repositories as a means of minimizing paper use while also increasing convenience in access and ease of use.

**Identify Issues of Public Concern.** The major issues of concern to the public will be potential impacts of nuisance odors and dust during the disturbance of historic fill soils at the Site. This work will be performed in accordance with procedures which will be specified under a detailed Remedial Program which considers and takes preventive measures for exposures to future

residents of the property and those on adjacent properties during construction. Detailed plans to monitor the potential for exposure including a Construction Health and Safety Plan and a Community Air Monitoring Plan are required components of the remedial program. Implementation of these plans will be under the direct oversight of the New York City Department of Environmental Remediation (NYCOER).

These plans will specify the following worker and community health and safety activities during remedial activity at the Site:

- On-Site air monitoring for worker protection,
- Perimeter air monitoring for community protection.

The Health and Safety Plan and the Community Air Monitoring Plan prepared as part of the Remedial Action Work Plan will be available for public review at the document repository.

**Public Notice and Public Comment.** Public notice to all members of the Project Contact List is required at three major steps during the performance of the cleanup program (listed below) and at other points that may be required by OER. Notices will include Fact Sheets with descriptive project summaries, updates on recent and upcoming project activities, repository information, and important phone and email contact information. All notices will be prepared by Throop Wallabout Realty, LLC, reviewed and approved by OER prior to distribution and mailed by Throop Wallabout Realty, LLC. Public comment is solicited in public notices for all work plans developed under the NYC Voluntary Cleanup Program. Final review of all work plans by OER will consider all public comments. Approval will not be granted until the public comment period has been completed.

**Citizen Participation Milestones.** Public notice and public comment activities occur at several steps during a typical NYC VCP project. See flow chart on the following page, which identifies when during the NYC VCP public notices are issued: These steps include:

- **Public Notice of the availability of the Remedial Investigation Report and Remedial Action Work Plan and a 30-day public comment period on the Remedial Action Work Plan.**

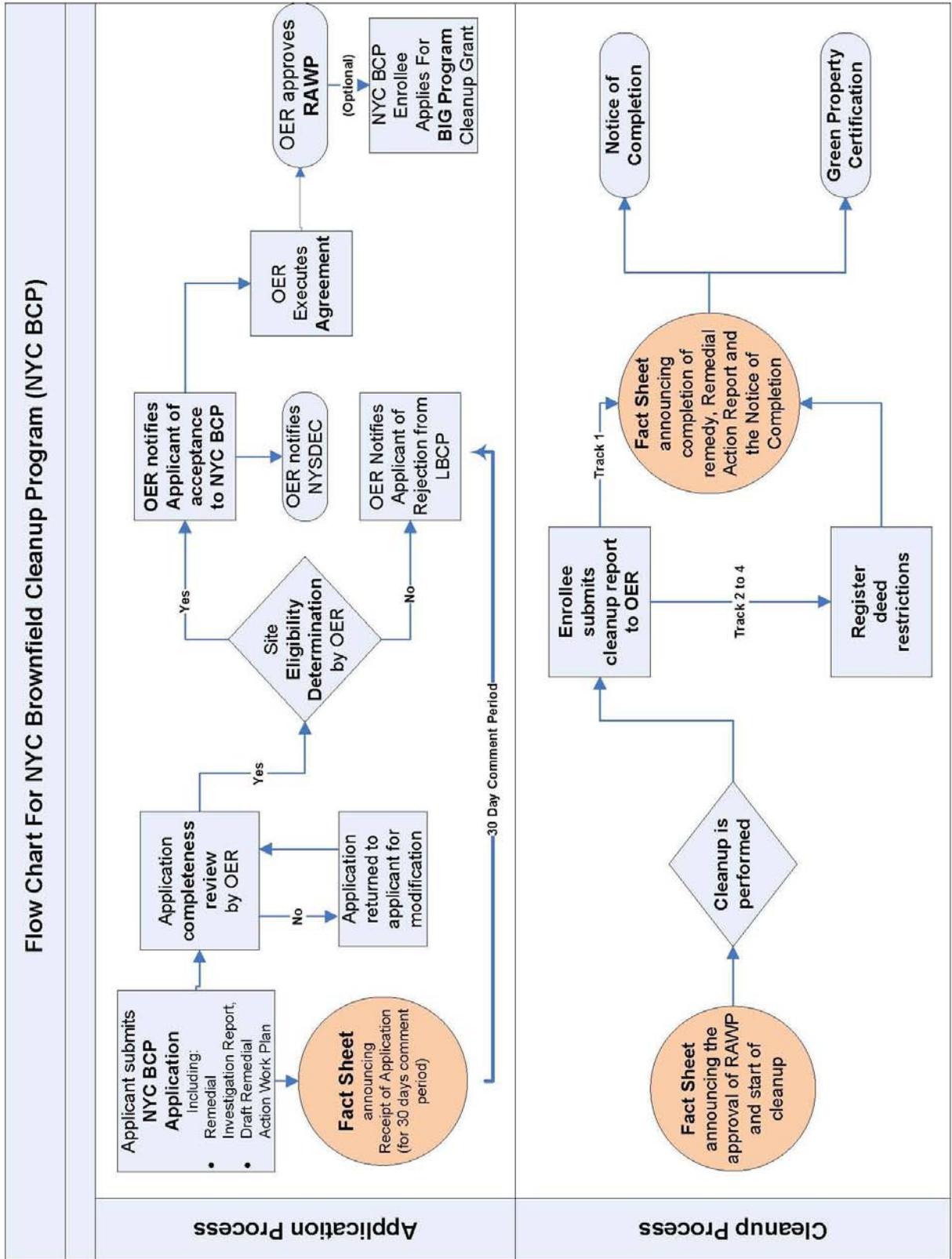
Public notice in the form of a Fact Sheet is sent to all parties listed on the Site Contact List announcing the availability of the Remedial Investigation Report and Remedial Action Work Plan and the initiation of a 30-day public comment period on the Remedial Action Work Plan. The Fact Sheet summarizes the findings of the RIR and provides details of the RAWP. The public comment period will be extended an additional 15 days upon public request. A public meeting or informational session will be conducted by OER upon request.

- **Public Notice announcing the approval of the RAWP and the start of remediation**

Public notice in the form of a Fact Sheet is sent to all parties listed on the Site Contact List announcing the approval of the RAWP and the start of remediation.

- **Public Notice announcing the completion of remediation, designation of Institutional and Engineering Controls and issuance of the Notice of Completion**

Public notice in the form of a Fact Sheet is sent to all parties listed on the Site Contact List announcing the completion of remediation, providing a list of all Institutional and Engineering Controls implemented for to the Site and announcing the issuance of the Notice of Completion



**ATTACHMENT C**  
**SUSTAINABILITY STATEMENT**

## ATTACHMENT C SUSTAINABILITY STATEMENT

This Sustainability Statement documents sustainable activities and green remediation efforts planned under this remedial action.

**Reuse of Clean, Recyclable Materials.** Reuse of clean, locally-derived recyclable materials reduces consumption of non-renewable virgin resources and can provide energy savings and greenhouse gas reduction.

This project intends to use recycled concrete aggregate wherever possible in grading and backfilling the Site. An estimate of the quantity (in tons) of clean, non-virgin materials (reported by type of material) reused under this plan will be quantified and reported in the RAR.

**Reduce Consumption of Virgin and Non-Renewable Resources.** Reduced consumption of virgin and non-renewable resources lowers the overall environmental impact of the project on the region by conserving these resources.

The project will reduce the consumption of virgin materials by substituting recycled concrete aggregate for mined gravel and/or sand backfill whenever possible. An estimate of the quantity (in tons) of virgin and non-renewable resources, the use of which will be avoided under this plan, will be quantified and reported in the RAR.

**Reduced Energy Consumption and Promotion of Greater Energy Efficiency.** Reduced energy consumption lowers greenhouse gas emissions, improves local air quality, lessens in-city power generation requirements, can lower traffic congestion, and provides substantial cost savings.

Recycled concrete materials and other backfill materials will be locally sourced reducing the energy consumption associated with transporting these materials to the Site. Best efforts will be made to quantify energy efficiencies achieved during the remediation and will be reported in the Remedial Action Report (RAR). Where energy savings cannot be easily quantified, a gross indicator of the amount of energy saved or the means by which energy savings was achieved will be reported.



**Paperless Voluntary Cleanup Program.** Throop Wallabout Realty, LLC is participating in OER's Paperless Voluntary Cleanup Program. Under this program, submission of electronic documents will replace submission of hard copies for the review of project documents, communications and milestone reports.

**Low-Energy Project Management Program.** Throop Wallabout Realty, LLC is participating in OER's low-energy project management program. Under this program, whenever possible, meetings are held using remote communication technologies, such as videoconferencing and teleconferencing to reduce energy consumption and traffic congestion associated with personal transportation.

**ATTACHMENT D**  
**SOIL/MATERIALS MANAGEMENT PLAN**

## **ATTACHMENT D**

### **SOIL/MATERIALS MANAGEMENT PLAN**

#### **1.1 SOIL SCREENING METHODS**

Visual, olfactory and PID soil screening and assessment will be performed under the supervision of a Qualified Environmental Professional and will be reported in the RAR. Soil screening will be performed during invasive work performed during the remedy and development phases prior to issuance of the Notice of Completion.

#### **1.2 STOCKPILE METHODS**

Excavated soil from suspected areas of contamination (e.g., hot spots, USTs, drains, etc.) will be stockpiled separately and will be segregated from clean soil and construction materials. Stockpiles will be used only when necessary and will be removed as soon as practicable. While stockpiles are in place, they will be inspected daily, and before and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. Excavated soils will be stockpiled on, at minimum, double layers of 8-mil minimum sheeting, will be kept covered at all times with appropriately anchored plastic tarps, and will be routinely inspected. Broken or ripped tarps will be promptly replaced.

All stockpile activities will be compliant with applicable laws and regulations. Soil stockpile areas will be appropriately graded to control run-off in accordance with applicable laws and regulations. Stockpiles of excavated soils and other materials shall be located at least of 50 feet from the property boundaries, where possible. Hay bales or equivalent will surround soil stockpiles except for areas where access by equipment is required. Silt fencing and hay bales will be used as needed near catch basins, surface waters and other discharge points.

#### **1.3 CHARACTERIZATION OF EXCAVATED MATERIALS**

Soil/fill or other excavated media that is transported off-Site for disposal will be sampled in a manner required by the receiving facility, and in compliance with applicable laws and regulations. Soils proposed for reuse on-Site will be managed as defined in this plan.

#### **1.4 MATERIALS EXCAVATION, LOAD-OUT AND DEPARTURE**

The PE/QEP overseeing the remedial action will:

- oversee remedial work and the excavation and load-out of excavated material;
- ensure that there is a party responsible for the safe execution of invasive and other work performed under this work plan;
- ensure that Site development activities and development-related grading cuts will not interfere with, or otherwise impair or compromise the remedial activities proposed in this RAWP;
- ensure that the presence of utilities and easements on the Site has been investigated and that any identified risks from work proposed under this plan are properly addressed by appropriate parties;
- ensure that all loaded outbound trucks are inspected and cleaned if necessary before leaving the Site; and
- ensure that all egress points for truck and equipment transport from the Site will be kept clean of Site-derived materials during Site remediation.

Locations where vehicles exit the Site shall be inspected daily for evidence of soil tracking off premises. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

Open and uncontrolled mechanical processing of historical fill and contaminated soil on-Site will not be performed without prior OER approval.

#### **1.5 OFF-SITE MATERIALS TRANSPORT**

Loaded vehicles leaving the Site will comply with all applicable materials transportation requirements (including appropriate covering, manifests, and placards) in accordance with applicable laws and regulations, including use of licensed haulers in accordance with 6 NYCRR Part 364. If loads contain wet material capable of causing leakage from trucks, truck liners will be used. Queuing of trucks will be performed on-Site, when possible in order to minimize off Site disturbance. Off-Site queuing will be minimized. Outbound truck transport routes are the following:

- 1) Continue south on Throop Avenue for approximately 25 ft, then turn right onto Gerry Street.
- 2) Continue west on Gerry Street and make the 2nd right onto Union Avenue.
- 3) Continue north on Union Avenue to Interstate 278 - Brooklyn Queens Expressway.

This routing takes into account the following factors: (a) limiting transport through residential areas and past sensitive sites; (b) use of mapped truck routes; (c) minimizing off-Site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. To the extent possible, all trucks loaded with Site materials will travel from the Site using these truck routes. Trucks will not stop or idle in the neighborhood after leaving the project Site.

## **1.6 MATERIALS DISPOSAL OFF-SITE**

The following documentation will be established and reported by the PE/QEP for each disposal destination used in this project to document that the disposal of regulated material exported from the Site conforms with applicable laws and regulations: (1) a letter from the PE/QEP or Throop Wallabout Realty, LLC to each disposal facility describing the material to be disposed and requesting written acceptance of the material. This letter will state that material to be disposed is regulated material generated at an environmental remediation Site in Brooklyn, New York under a governmental remediation program. The letter will provide the project identity and the name and phone number of the PE/QEP or Throop Wallabout Realty, LLC. The letter will include as an attachment a summary of all chemical data for the material being transported; and (2) a letter from each disposal facility stating it is in receipt of the correspondence (1, above) and is approved to accept the material. These documents will be included in the RAR.

The Remedial Action Report will include an itemized account of the destination of all material removed from the Site during this remedial action. Documentation associated with disposal of all material will include records and approvals for receipt of the material. This information will be presented in the RAR.

All impacted soil/fill or other waste excavated and removed from the Site will be managed as regulated material and will be disposed in accordance with applicable laws and regulations.

Historic fill and contaminated soils taken off-Site will be handled as solid waste and will not be disposed at a Part 360-16 Registration Facility (also known as a Soil Recycling Facility).

Waste characterization will be performed for off-Site disposal in a manner required by the receiving facility and in conformance with its applicable permits. Waste characterization sampling and analytical methods, sampling frequency, analytical results and QA/QC will be reported in the RAR. A manifest system for off-Site transportation of exported materials will be employed. Manifest information will be reported in the RAR. Hazardous wastes derived from on-Site will be stored, transported, and disposed of in compliance with applicable laws and regulations.

If disposal of soil/fill from this Site is proposed for unregulated disposal (i.e., clean soil removed for development purposes), including transport to a Part 360-16 Registration Facility, a formal request will be made for approval by OER with an associated plan compliant with 6NYCRR Part 360-16. This request and plan will include the location, volume and a description of the material to be recycled, including verification that the material is not impacted by site uses and that the material complies with receipt requirements for recycling under 6NYCRR Part 360. This material will be appropriately handled on-Site to prevent mixing with impacted material.

## **1.7 MATERIALS REUSE ON-SITE**

Soil and fill that is derived from the property that meets the soil cleanup objectives established in this plan may be reused on-Site. The soil cleanup objectives for on-Site reuse are listed in Table 1. 'Reuse on-Site' means material that is excavated during the remedy or development, does not leave the property, and is relocated within the same property and on comparable soil/fill material, and addressed pursuant to the NYC VCP agreement subject to Engineering and Institutional Controls. The PE/QEP will ensure that reused materials are segregated from other materials to be exported from the Site and that procedures defined for material reuse in this RAWP are followed.

Organic matter (wood, roots, stumps, etc.) or other waste derived from clearing and grubbing of the Site will not be buried on-Site. Soil or fill excavated from the site for grading or other purposes will not be reused within a cover soil layer or within landscaping berms.

## **1.8 DEMARCATION**

After completion of hotspot removal and any other invasive remedial activities, and prior to backfilling, the top of the residual soil/fill will be defined by one of three methods: (1) placement of a demarcation layer. The demarcation layer will consist of geosynthetic fencing or equivalent material to be placed on the surface of residual soil/fill to provide an observable reference layer. A description or map of the approximate depth of the demarcation layer will be provided in the SMP; or (2) a land survey of the top elevation of residual soil/fill before the placement of cover soils, pavement and associated sub-soils, or other materials or structures or, (3) all materials beneath the approved cover will be considered impacted and subject to site management after the remedy is complete. Demarcation may be established by one or any combination of these three methods. As appropriate, a map showing the method of demarcation for the Site and all associated documentation will be presented in the RAR.

This demarcation will constitute the top of the site management horizon. Materials within this horizon require adherence to special conditions during future invasive activities as defined in the Site Management Plan.

## **1.9 IMPORT OF BACKFILL SOIL FROM OFF-SITE SOURCES**

This Section presents the requirements for imported fill materials to be used below the cover layer and within the clean soil cover layer. All imported soils will meet OER-approved backfill and cover soil quality objectives for this Site. The backfill and cover soil quality objectives are listed in Table 1.

A process will be established to evaluate sources of backfill and cover soil to be imported to the Site, and will include an examination of source location, current and historical use(s), and any applicable documentation. Material from industrial sites, spill sites, environmental remediation sites or other potentially contaminated sites will not be imported to the Site.

The following potential sources may be used pending attainment of backfill and cover soil quality objectives:

- Clean soil from construction projects at non-industrial sites in compliance with applicable laws and regulations;

- Clean soil from roadway or other transportation-related projects in compliance with applicable laws and regulations;
- Clean recycled concrete aggregate (RCA) from facilities permitted or registered by the regulations of NYS DEC.

All materials received for import to the Site will be approved by a PE/QEP and will be in compliance with provisions in this RAWP. The RAR will report the source of the fill, evidence that an inspection was performed on the source, chemical sampling results, frequency of testing, and a Site map indicating the locations where backfill or soil cover was placed.

### **Source Screening and Testing**

Inspection of imported fill material will include visual, olfactory and PID screening for evidence of contamination. Materials imported to the Site will be subject to inspection, as follows:

- Trucks with imported fill material will be in compliance with applicable laws and regulations and will enter the Site at designated locations;
- The PE/QEP is responsible to ensure that every truck load of imported material is inspected for evidence of contamination; and
- Fill material will be free of solid waste including pavement materials, debris, stumps, roots, and other organic matter, as well as ashes, oil, perishables or foreign matter.

Composite samples of imported material will be taken at a minimum frequency of one sample for every 500 cubic yards of material. Once it is determined that the fill material meets imported backfill or cover soil chemical requirements and is non-hazardous, and lacks petroleum contamination, the material will be loaded onto trucks for delivery to the Site.

Recycled concrete aggregate (RCA) will be imported from facilities permitted or registered by NYSDEC. Facilities will be identified in the RAR. A PE/QEP is responsible to ensure that the facility is compliant with 6NYCRR Part 360 registration and permitting requirements for the period of acquisition of RCA. RCA imported from compliant facilities will not require additional testing, unless required by NYSDEC under its terms for operation of the facility. RCA imported to the Site must be derived from recognizable and uncontaminated concrete. RCA material is not acceptable for, and will not be used as cover material.

## **1.10 FLUIDS MANAGEMENT**

All liquids to be removed from the Site, including dewatering fluids, will be handled, transported and disposed in accordance with applicable laws and regulations. Liquids discharged into the New York City sewer system will receive prior approval by New York City Department of Environmental Protection (NYC DEP). The NYC DEP regulates discharges to the New York City sewers under Title 15, Rules of the City of New York Chapter 19. Discharge to the New York City sewer system will require an authorization and sampling data demonstrating that the groundwater meets the City's discharge criteria. The dewatering fluid will be pretreated as necessary to meet the NYC DEP discharge criteria. If discharge to the City sewer system is not appropriate, the dewatering fluids will be managed by transportation and disposal at an off-Site treatment facility.

Discharge of water generated during remedial construction to surface waters (i.e. a stream or river) is prohibited without a SPDES permit issued by New York State Department of Environmental Conservation.

## **1.11 STORM-WATER POLLUTION PREVENTION**

Applicable laws and regulations pertaining to storm-water pollution prevention will be addressed during the remedial program. Erosion and sediment control measures identified in this RAWP (silt fences and barriers, and hay bale checks) will be installed around the entire perimeter of the remedial construction area and inspected once a week and after every storm event to ensure that they are operating appropriately. Discharge locations will be inspected to determine whether erosion control measures are effective in preventing significant impacts to receptors. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. All necessary repairs shall be made immediately. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. Undercutting or erosion of the silt fence toe anchor will be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

## **1.12 CONTINGENCY PLAN**

This contingency plan is developed for the remedial construction to address the discovery of unknown structures or contaminated media during excavation. Identification of unknown contamination source areas during invasive Site work will be promptly communicated to OER's Project Manager. Petroleum spills will be reported to the NYS DEC Spill Hotline. These findings will be included in the daily report. If previously unidentified contaminant sources are found during on-Site remedial excavation or development-related excavation, sampling will be performed on contaminated source material and surrounding soils and reported to OER. Chemical analytical testing will be performed for TAL metals, TCL volatiles and semi-volatiles, TCL pesticides and PCBs, as appropriate.

## **1.13 ODOR, DUST AND NUISANCE CONTROL**

### **Odor Control**

All necessary means will be employed to prevent on- and off-Site odor nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) use of foams to cover exposed odorous soils. If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-Site disposal; and (e) use of chemical odorants in spray or misting systems.

This odor control plan is capable of controlling emissions of nuisance odors. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. OER will be notified of all odor complaint events. Implementation of all odor controls, including halt of work, will be the responsibility of the PE/QEP's certifying the Remedial Action Report.

### **Dust Control**

Dust management during invasive on-Site work will include, at a minimum:

- Use of a dedicated water spray methodology for roads, excavation areas and stockpiles.
- Use of properly anchored tarps to cover stockpiles.
- Exercise extra care during dry and high-wind periods.
- Use of gravel or recycled concrete aggregate on egress and other roadways to provide a

clean and dust-free road surface.

This dust control plan is capable of controlling emissions of dust. If nuisance dust emissions are identified, work will be halted and the source of dusts will be identified and corrected. Work will not resume until all nuisance dust emissions have been abated. OER will be notified of all dust complaint events. Implementation of all dust controls, including halt of work, will be the responsibility of the PE/QEP's responsible for certifying the Remedial Action Report.

**Other Nuisances**

Noise control will be exercised during the remedial program. All remedial work will conform, at a minimum, to NYC noise control standards.

Rodent control will be provided, during Site clearing and grubbing, and during the remedial program, as necessary, to prevent nuisances.

**ATTACHMENT E**  
**SITE SPECIFIC CONSTRUCTION**  
**HEALTH AND SAFETY PLAN**

# REDEVELOPMENT PROJECT

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**82 THROOP AVENUE**

**BROOKLYN, NEW YORK**

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## **CONSTRUCTION HEALTH AND SAFETY PLAN**

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JUNE 2013

*Prepared for:*

Throop Wallabout Realty, LLC  
505 Flushing Avenue, Suite 1D  
Brooklyn, New York 11205

*Prepared By:*

***EBC***

***ENVIRONMENTAL BUSINESS CONSULTANTS***

1808 Middle Country Road  
Ridge, NY 11961

## HEALTH AND SAFETY PLAN

Site: **Redevelopment Project - TRG**

Location: **82 Throop Avenue, Brooklyn, NY**

Prepared By: **ENVIRONMENTAL BUSINESS CONSULTANTS**

Date Prepared: **June - 2013**

Version: **1**

Revision: **0**

### Project Description:

Waste types: **Solid**

Characteristics: **Semi-Volatile Organic Compounds, metals, and pesticides – in historic fill (Grade to 8 feet of soil)**

Overall Hazard: **Low**

ENVIRONMENTAL BUSINESS CONSULTANTS (EBC) AND EBC'S SUBCONTRACTORS DO NOT GUARANTEE THE HEALTH OR SAFETY OF ANY PERSON ENTERING THIS SITE. DUE TO THE NATURE OF THIS SITE AND THE ACTIVITY OCCURRING THEREON, IT IS NOT POSSIBLE TO DISCOVER, EVALUATE, AND PROVIDE PROTECTION FOR ALL POSSIBLE HAZARDS WHICH MAY BE ENCOUNTERED. STRICT ADHERENCE TO THE HEALTH AND SAFETY GUIDELINES SET FORTH HEREIN WILL REDUCE, BUT NOT ELIMINATE, THE POTENTIAL FOR INJURY AT THIS SITE. THE HEALTH AND SAFETY GUIDELINES IN THIS PLAN WERE PREPARED SPECIFICALLY FOR THIS SITE AND SHOULD NOT BE USED ON ANY OTHER SITE WITHOUT PRIOR RESEARCH AND EVALUATION.

## CONSTRUCTION HEALTH AND SAFETY PLAN Table of Contents

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### ***FIGURES***

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Figure 1                      Route to Hospital (Appendix D)

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## STATEMENT OF COMMITMENT

This Health and Safety Plan (HASP) has been prepared to ensure that workers are not exposed to risks from hazardous materials during the Remedial Activities planned for 78 Throop Avenue, Brooklyn, New York.

This HASP, which applies to persons present at the site actually or potentially exposed to hazardous materials, describes emergency response procedures for actual and potential chemical hazards. This HASP is also intended to inform and guide personnel entering the work area or exclusion zone. Persons are to acknowledge that they understand the potential hazards and the contents of this Health and Safety policy by signing off on receipt of their individual copy of the document. The General Contractor and their subcontractors and suppliers are retained as independent contractors and are responsible for ensuring the health and safety of their own employees. The General contractor has the option of adopting this HASP or providing its own for the planned scope of work under the Remedial Action Plan.



## 1.0 INTRODUCTION

This document describes the health and safety guidelines developed by Environmental Business Consultants (EBC) for implementation of a Remedial Action Plan at Redevelopment Project located at 78 Throop Avenue, Brooklyn, NY, to protect on-site personnel, visitors, and the public from physical harm and exposure to hazardous materials or wastes during the removal of underground storage tanks and the excavation and loading of contaminated soil. In accordance with the Occupational Safety and Health Administration (OSHA) 29 CFR Part 1910.120 Hazardous Waste Operations and Emergency Response Final rule, this CHASP, including the attachments, addresses safety and health hazards related to subsurface sample collection activities and is based on the best information available. The CHASP may be revised by EBC at the request of The Rabsky Group (“the owner”) and/or the New York State Department of Environmental Conservation (NYSDEC) or New York City Office of Environmental Remediation (NYCOER) upon receipt of new information regarding site conditions. Changes will be documented by written amendments signed by EBC’s Project Manager, site safety officer and/or the EBC Health and Safety Consultant.

### 1.1 Scope

This CHASP addresses the potential hazards related to the site Remedial Action Plan (RAP). The RAP activities are as described below:

- 1) Site mobilization of General Contractor (GC) and Subcontractors to install the building foundation.
  - a) Excavate top 8 feet of historic fill from Site.
  - b) Excavate as necessary for installation of new building's foundation.

### 1.2 Application

The HASP applies to all personnel involved in the above tasks who wish to gain access to active work areas, including but not limited to:

- General Contractor
- EBC employees and subcontractors;
- Client representatives; and
- Federal, state or local representatives.

### 1.3 Site Safety Plan Acceptance, Acknowledgment and Amendments

The project superintendent and the site safety officer are responsible for informing personnel (EBC employees and/or owner or owners representatives) entering the work area of the contents of this plan and ensuring that each person signs the safety plan acknowledging the on-site hazards and procedures required to minimize exposure to adverse effects of these hazards. A copy of the Acknowledgement Form is included in **Appendix A**.

Site conditions may warrant an amendment to the HASP. Amendments to the HASP are acknowledged by completing forms included in **Appendix B**.

### 1.4 Key Personnel - Roles and Responsibilities

Personnel responsible for implementing this Construction Health and Safety Plan are:

Name	Title	Address	Contact Numbers
Mr. Kevin Brussee	EBC Project Manager	1808 Middle Country Road Ridge, NY 11961	(631) 504-6000 Cell (631) 338-1749
Mr. Kevin Waters	EBC Site Safety Officer	1808 Middle Country Road Ridge, NY 11961	(631) 504-6000

The project manager is responsible for overall project administration and, with guidance from the site safety officer, for supervising the implementation of this CHASP. The site safety officer will conduct daily (tail gate or tool box) safety meetings at the project site and oversee daily safety issues. Each subcontractor and supplier (defined as an OSHA employer) is also responsible for the health and safety of its employees. If there is any dispute about health and safety or project activities, on-site personnel will attempt to resolve the issue. If the issue cannot be resolved at the site, then the project manager will be consulted.

The site safety officer is also responsible for coordinating health and safety activities related to hazardous material exposure on-site. The site safety officer is responsible for the following:

1. Educating personnel about information in this CHASP and other safety requirements to be observed during site operations, including, but not limited to, decontamination procedures, designation of work zones and levels of protection, air monitoring, fit testing, and emergency procedures dealing with fire and first aid.
2. Coordinating site safety decisions with the project manager.
3. Designating exclusion, decontamination and support zones on a daily basis.
4. Monitoring the condition and status of known on-site hazards and maintaining and implementing the air quality monitoring program specified in this CHASP.
5. Maintaining the work zone entry/exit log and site entry/exit log.
6. Maintaining records of safety problems, corrective measures and documentation of chemical exposures or physical injuries (the site safety officer will document these conditions in a bound notebook and maintain a copy of the notebook on-site).

The person who observes safety concerns and potential hazards that have not been addressed in the daily safety meetings should immediately report their observations/concerns to the site safety officer or appropriate key personnel.

## 2.0 SITE BACKGROUND AND SCOPE OF WORK

The Site is located at 82 Throop Avenue in the Williamsburg section of Brooklyn, New York, and is identified as Block 2266 and Lot 34 on the New York City Tax Map. The Site is 2,548-square feet and is bounded by Block 2266 Lot 32 (vacant land) to the north, Gerry Street and Block 2269 Lot 27 (vacant land) to the south, Throop Avenue and Block 2267 Lot 7501 (multi-story mixed residential/commercial building) to the east, and Block 2266 Lot 36 (vacant land) to the west. Currently, the Site is undeveloped, vacant and uncapped.

### 2.1 Prior Investigations

#### 2.1.2 Remedial Investigation Report

The Rabsky Goup performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed three soil borings across the entire project Site, and collected six soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and
4. Installed three soil vapor probes across the Site and collected three samples for chemical analysis.

#### Soil Sampling Results

Soil/fill samples collected during the RI showed no detectable concentrations of VOCs. Six SVOCs including benzo(a)anthracene (max. of 3,300 µg/Kg), benzo(a)pyrene (max. of 2,900 µg/Kg), benzo(b)fluoranthene (max. of 4,300 µg/Kg), benzo-(k)fluoranthene (max. of 1,600 µg/Kg), chrysene (max. of 3,500 µg/Kg), and indeno(1,2,3-cd)pyrene (max. of 1,100 µg/Kg) were detected above their respective Restricted Residential Use SCOs within all three shallow soil samples. The SVOCs detected above Unrestricted/Restricted Residential SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Three pesticides 4,4'-DDE (34 µg/Kg), 4,4'-DDT (max. of 140 µg/Kg), and dieldrin (11 µg/Kg) were detected above Unrestricted Use SCOs in two of the three shallow soil samples collected. One pesticide, 4,4'-DDD (3.6 µg/Kg), was detected in one deep soil sample (SB2). All pesticide concentrations were well below Restricted Residential SCOs. One PCB, PCB-1260, was detected above Unrestricted Use SCOs in two of the three shallow soil samples, at a maximum concentration of 130 µg/Kg. Five metals including barium (max. of 642 µg/Kg), copper (max. of 97.7 µg/Kg), lead (max. of 967 µg/Kg), mercury (max. of 1.15 µg/Kg) and zinc (max. of 537 µg/Kg) exceeded Unrestricted Use SCOs in all three shallow soil samples. Of these metals, barium, lead, and mercury also exceeded Restricted Residential SCOs, in all three shallow samples. Zinc was detected in one deep soil sample, SB2, above Unrestricted Use SCOs at a concentration of 190 µg/Kg. No VOCs, SVOCs, PCBs, or pesticides were detected above Unrestricted Use SCOs within two of the three deep soil samples collected at the Site. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.

### Groundwater Sampling Results

Groundwater samples collected during the RI showed the presence of three VOCs above GQS within one of the monitoring wells (MW3) and included cis-1,2-dichloroethene, tetrachloroethene, and trichloroethene. No VOCs were identified in any of the soil samples collected on Site and are not associated with known historical uses of the property. Eleven SVOCs were detected in one or more of the three monitoring wells, but only five of the SVOCs were detected at a concentration above GQS. One pesticide, 4,4-DDT, was detected slightly above GQS in MW3 at a concentration of 0.15 µg/L, no other pesticides or PCBs were detected. The metals iron, lead, magnesium, manganese, and sodium were detected above their respective NYSDEC Groundwater Quality Standards (GQS) in one or more dissolved groundwater samples.

### Soil Gas Sampling Results

Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at low concentrations. Tetrachloroethylene (max. of 2.17 µg/m<sup>3</sup>), trichloroethylene (max. of 1.88 µg/m<sup>3</sup>), and carbon tetrachloride (max. of 0.566 µg/m<sup>3</sup>) were detected in all three soil vapor samples. 1,1,1-trichloroethane was detected in one of the three samples at a concentration of 1.14 µg/m<sup>3</sup>. The PCE, TCE, carbon tetrachloride, and 1,1,1-TCA concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs (BTEX) ranged from approximately 40.48 µg/m<sup>3</sup> to 48.56 µg/m<sup>3</sup>. Overall the highest reported concentrations were for acetone (maximum of 2,610 µg/m<sup>3</sup>) and ethanol (maximum of 1,520 µg/m<sup>3</sup>).

## **2.2 Redevelopment Plans**

The proposed future use of the Site will consist of redeveloping the Lot with a 4-story apartment building. The 25.48 ft wide tax lot will have a full cellar beneath the footprint of the building. The building will extend approximately 65 feet. Therefore, the gross building square footage will be approximately 8,125 ft<sup>2</sup>. There will be a rear cellar level walk-out court yard behind the building, which will be approximately 35 feet deep. The concrete slab of the cellar will be approximately 6 feet 4 inches below sidewalk level. The street front portion of the cellar will consist of a boiler room, gas meter room, electric meter room and a large open cellar area. The remaining portions of the cellar will consist of residential space. The building will consist of three residential units.

Excavation for each new building and rear cellar level court yard will likely extend to a depth of approximately 8 feet below grade for construction of the buildings cellar levels and foundations. Assuming an excavation volume of approximately 25 feet (wide) by 100 feet (length) and 8 feet (deep), a total of approximately 750 cubic yards (1,100 tons) of soil will require excavation. The slab and rear cellar level court yard for each building will be capped with a 1 ft 6 inch layer of concrete.

## **2.3 Description of Remedial Action Plan**

Site activities included within the Remedial Action Plan that are included within the scope of this HASP include the following:

The proposed remedial action will consist of:

1. Preparation of a Community Protection Statement and implementation of all required NYC VCP Citizen Participation activities according to an approved Citizen Participation

- Plan;
2. Performance of a Community Air Monitoring Program for particulates and volatile organic carbon compounds;
  3. Establishment of Track 1 Unrestricted Use Soil Cleanup Objectives (SCOs);
  4. Site mobilization involving Site security setup, equipment mobilization, utility mark outs and marking & staking excavation areas;
  5. Excavation and removal of soil/fill exceeding Track 1 Unrestricted Use SCOs. For development purposes, the entire property will be excavated to a depth of 8 feet;
  6. Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID. Appropriate segregation of excavated media on-Site;
  7. Removal of underground storage tanks (if encountered) and closure of petroleum spills (if evidence of a spill/leak is encountered during Site excavation) in compliance with applicable local, State and Federal laws and regulations;
  8. Transportation and off-Site disposal of all soil/fill material at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Sampling and analysis of excavated media as required by disposal facilities;
  9. Collection and analysis of end-point samples to determine the performance of the remedy with respect to attainment of SCOs;
  10. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations;
  11. As part of development, installation of a vapor barrier below the basement concrete slab and behind the foundation walls of the proposed building;
  12. As part of development, construction and maintenance of an engineered composite cover consisting of a 4 inch thick concrete basement slab;
  13. Implementation of storm-water pollution prevention measures in compliance with applicable laws and regulations;
  14. Performance of all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations;
  15. Submission of a Remedial Action Report (RAR) that describes the remedial activities, certifies that the remedial requirements have been achieved, defines the Site boundaries, lists any changes from this RAWP, and, if Track 1 SCOs are not achieved, describes all Engineering and Institutional Controls to be implemented at the Site;
  16. If Track 1 is not achieved, submission of an approved Site Management Plan (SMP) in the RAR for long-term management of residual contamination, including plans for maintenance, monitoring, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency; and
  17. If Track 1 is not achieved, the property will continue to be flagged with an E-Designation by the NYC Buildings Department. Establishment of Engineering Controls and Institutional Controls in this RAWP and a requirement that management of these controls must be in compliance with an approved SMP. Institutional Controls will include prohibition of the following: (1) vegetable gardening and farming; (2) use of groundwater without treatment rendering it safe for the intended use; (3) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (4) higher level of land usage without OER-approval.

### **3.0 HAZARD ASSESSMENT**

This section identifies the hazards associated with the proposed scope of work, general physical hazards that can be expected at most sites; and presents a summary of documented or potential chemical hazards at the site. Every effort must be made to reduce or eliminate these hazards. Those that cannot be eliminated must be guarded against using engineering controls and/or personal protective equipment.

#### **3.1 Physical Hazards**

##### *3.1.1 Tripping Hazards*

An area of risk associated with on-site activities are presented by uneven ground, concrete, curbstones or equipment which may be present at the site thereby creating a potential tripping hazard. During intrusive work, care should be taken to mark or remove any obstacles within the exclusion zone.

##### *3.1.2 Climbing Hazards*

During site activities, workers may have to work on excavating equipment by climbing. The excavating contractor will conform with any applicable NIOSH and OSHA requirements or climbing activities.

##### *3.1.3 Cuts and Lacerations*

Field activities that involve excavating activities usually involve contact with various types of machinery. A first aid kit approved by the American Red Cross will be available during all intrusive activities.

##### *3.1.4 Lifting Hazards*

Improper lifting by workers is one of the leading causes of industrial injuries. Field workers in the excavation program may be required to lift heavy objects. Therefore, all members of the field crew should be trained in the proper methods of lifting heavy objects. All workers should be cautioned against lifting objects too heavy for one person.

##### *3.1.5 Utility Hazards*

Before conducting any excavation, the excavation contractor will be responsible for locating and verifying all existing utilities at each excavation.

##### *3.1.6 Traffic Hazards*

All traffic, vehicular and pedestrian, shall be maintained and protected at all times consistent with local, state and federal agency regulations regarding such traffic and in accordance with NYCDOT guidelines. The excavation contractor shall carry on his operations without undue interference or delays to traffic. The excavation contractor shall furnish all labor, materials, guards, barricades, signs, lights, and anything else necessary to maintain traffic and to protect his work and the public, during operations.

#### **3.2 Work in Extreme Temperatures**

Work under extremely hot or cold weather conditions requires special protocols to minimize the chance that employees will be affected by heat or cold stress.

### 3.2.1 Heat Stress

The combination of high ambient temperature, high humidity, physical exertion, and personal protective apparel, which limits the dissipation of body heat and moisture, can cause heat stress.

The following prevention, recognition and treatment strategies will be implemented to protect personnel from heat stress. Personnel will be trained to recognize the symptoms of heat stress and to apply the appropriate treatment.

#### 1. Prevention

- a. Provide plenty of fluids. Available in the support zone will be a 50% solution of fruit punch and water or plain water.
- b. Work in Pairs. Individuals should avoid undertaking any activity alone.
- c. Provide cooling devices. A spray hose and a source of water will be provided to reduce body temperature, cool protective clothing and/or act as a quick-drench shower in case of an exposure incident.
- d. Adjustment of the work schedule. As is practical, the most labor-intensive tasks should be carried out during the coolest part of the day.

#### 2. Recognition and Treatment

##### a. Heat Rash (or prickly heat):

Cause: Continuous exposure to hot and humid air, aggravated by chafing clothing.

Symptoms: Eruption of red pimples around sweat ducts accompanied by intense itching and tingling.

Treatment: Remove source or irritation and cool skin with water or wet cloths.

##### b. Heat Cramps (or heat prostration)

Cause: Profuse perspiration accompanied by inadequate replenishment of body water and electrolytes.

Symptoms: Muscular weakness, staggering gait, nausea, dizziness, shallow breathing, pale and clammy skin, approximately normal body temperature.

Treatment: Perform the following while making arrangement for transport to a medical facility. Remove the worker to a contamination reduction zone. Remove protective clothing. Lie worker down on back in a cool place and raise feet 6 to 12 inches. Keep warm, but loosen all clothing. If conscious, provide sips of salt-water solution, using one teaspoon of salt in 12 ounces of water. Transport to a medical facility.

##### c. Heat Stroke

Cause: Same as heat exhaustion. This is also an extremely serious condition.

Symptoms: Dry hot skin, dry mouth, dizziness, nausea, headache, rapid pulse.

Treatment: Cool worker immediately by immersing or spraying with cool water or sponge bare skin after removing protective clothing. Transport to hospital.

### 3.2.2 Cold Exposure

Exposure to cold weather, wet conditions and extreme wind-chill factors may result in excessive loss of body heat (hypothermia) and /or frostbite. To guard against cold exposure and to prevent cold injuries, appropriate warm clothing should be worn, warm shelter must be readily available, rest periods should be adjusted as needed, and the physical conditions of on-site field personnel should be closely monitored. Personnel and supervisors working on-site will be made aware of the signs and symptoms of frost bite and hypothermia such as shivering, reduced blood pressure, reduced coordination, drowsiness, impaired judgment, fatigue, pupils dilated but reactive to light and numbing of the toes and fingers.

### 3.3 Chemical Hazards

Soil collected from the site as part of several subsurface investigations performed at the site have revealed elevated levels of SVOCs, metals and pesticides in historic fill at the Site.

Semi-Volatile organic compounds reported to be present at elevated concentrations in historic fill materials at the Site include the following:

Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(a)pyrene
Benzo(k)fluoranthene	Chrysene	Indeno(1,2,3-cd)pyrene

Metals reported to be present at elevated concentrations in historic fill materials at the Site include the following:

Barium	Chromium	Mercury	Lead	Zinc
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Pesticides reported to be present at elevated concentrations in historic fill materials at the Site include the following:

4,4,4-DDD	4,4,4-DDT	Dieldrin
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The primary routes of exposure to identified contaminants in soil to on-site construction workers are through inhalation, ingestion and absorption.

**Appendix C** includes information sheets for all detected chemicals that may be encountered at the site.

#### 3.3.1 Respirable Dust

Dust may be generated from vehicular traffic and/or excavation activities. If visible observation detects elevated levels of dust, a program of wetting will be employed by the site safety officer. If elevated dust levels persist, the site safety office will employ dust monitoring using a particulate monitor (Miniram or equivalent). If monitoring detects concentrations greater than 150 µg/m<sup>3</sup> over daily background, the site safety officer will take corrective actions as defined herein, including the use of water for dust suppression and if this is not effective, requiring workers to wear APRs with efficiency particulate air (HEPA) cartridges.

Absorption pathways for dust and direct contact with soils or groundwater will be mitigated with the implementation of latex gloves, hand washing and decontamination exercises when necessary.

### 3.3.2 *Dust Control and Monitoring During Earthwork*

Dust generated during excavation activities or other earthwork may contain contaminants identified in soils at the site. Dust will be controlled by wetting the working surface with water. Calcium chloride may be used if the problem cannot be controlled with water. Air monitoring and dust control techniques are specified in a site specific Dust Control Plan (if applicable). Site workers will not be required to wear APR's unless dust concentrations are consistently over 150  $\mu\text{g}/\text{m}^3$  over site-specific background in the breathing zone as measured by a dust monitor unless the site safety officer directs workers to wear APRs. The site safety officer will use visible dust as an indicator to implement the dust control plan.

### 3.3.3 *Organic Vapors*

Although no VOCs were detected within any of the soil samples collected at the Site, the site safety officer will periodically monitor organic vapors with a Photo-ionization Detector (PID) during excavation activities to determine whether organic vapor concentrations exceed action levels shown in Section 5 and/or the Community Air Monitoring Plan.

## 4.0 PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment (PPE) shall be selected in accordance with the site air monitoring program, OSHA 29 CFR 1910.120(c), (g), and 1910.132. Protective equipment shall be NIOSH approved and respiratory protection shall conform to OSHA 29 CFR Part 1910.133 and 1910.134 specifications; head protection shall conform to 1910.135; eye and face protection shall conform to 1910.133; and foot protection shall conform to 1910.136. The only true difference among the levels of protection from D thru B is the addition of the type of respiratory protection. **It is anticipated that work will be performed in Level D PPE.**

### 4.1 Level D

Level D PPE shall be donned when the atmosphere contains no known hazards and work functions preclude splashes, immersion, or the potential for inhalation of, or contact with, hazardous concentrations of harmful chemicals. Level D PPE consists of:

- standard work clothes, coveralls, or tyvek, as needed;
- steel toe and steel shank work boots;
- hard hat;
- gloves, as needed;
- safety glasses;
- hearing protection;
- equipment replacements are available as needed.

### 4.2 Level C

Level C PPE shall be donned when sustained concentrations of measured total organic vapors in the breathing zone exceed background concentrations (using a portable OVA, or equivalent), by more than 5 ppm. The specifications on the APR filters used must be appropriate for contaminants identified or expected to be encountered. Level C PPE shall be donned when the identified contaminants have adequate warning properties and criteria for using APR have been met. Level C PPE consists of:

- chemical resistant or coated tyvek coveralls;
- steel-toe and steel-shank workboots;
- chemical resistant overboots or disposable boot covers;
- disposable inner gloves (surgical gloves);
- disposable outer gloves;
- full face APR fitted with organic vapor/dust and mist filters or filters appropriate for the identified or expected contaminants;
- hard hat;
- splash shield, as needed; and,
- ankles/wrists taped with duct tape.

The site safety officer will verify if Level C is appropriate by checking organic vapor concentrations using compound and/or class-specific detector tubes.

The exact PPE ensemble is decided on a site-by-site basis by the Site Safety Officer with the intent to provide the most protective and efficient worker PPE.

### 4.3 Activity-Specific Levels of Personal Protection

The required level of PPE is activity-specific and is based on air monitoring results (Section 4.0) and properties of identified or expected contaminants. **It is expected that site work will be performed in Level D.** If air monitoring results indicate the necessity to upgrade the level of protection, engineering controls (i.e. Facing equipment away from the wind and placing site personnel upwind of excavations, active venting, etc.) will be implemented before requiring the use of respiratory protection.

## 5.0 AIR MONITORING AND ACTION LEVELS

29 CFR 1910.120(h) specifies that monitoring shall be performed where there may be a question of employee exposure to hazardous concentrations of hazardous substances in order to assure proper selection of engineering controls, work practices and personal protective equipment so that employees are not exposed to levels which exceed permissible exposure limits, or published exposure levels if there are no permissible exposure limits, for hazardous substances.

### 5.1 Air Monitoring Requirements

If excavation work is performed, air will be monitored for VOCs with a portable ION Science 3000EX photoionization detector, or the equivalent. If necessary, Lower Explosive Limit (LEL) and oxygen will be monitored with a Combustible Gas Indicator (CGI). If appropriate, fugitive dust will be monitored using a MiniRam Model PDM-3 aerosol monitor. Air will be monitored when any of the following conditions apply:

- initial site entry;
- during any work where a potential IDLH condition or flammable atmosphere could develop;
- excavation work begins on another portion of the site;
- contaminants, other than those previously identified, have been discovered;
- each time a different task or activity is initiated;
- during trenching and/or excavation work.

The designated site safety officer will record air monitoring data and ensure that air monitoring instruments are calibrated and maintained in accordance with manufacturer's specifications. Instruments will be zeroed daily and checked for accuracy. Monitoring results will be recorded in a field notebook and will be transferred to instrument reading logs.

### 5.2 Work Stoppage Responses

The following responses will be initiated whenever one or more of the action levels necessitating a work stoppage are exceeded:

- 1 The SSO will be consulted immediately
- 2 All personnel (except as necessary for continued monitoring and contaminant migration, if applicable) will be cleared from the work area (eg from the exclusion zone).
- 3 Monitoring will be continued until intrusive work resumes.

### 5.3 Action Levels During Excavation Activities

Instrument readings will be taken in the breathing zone above the excavation pit unless otherwise noted. Each action level is independent of all other action levels in determining responses.

Organic Vapors (PID)	LEL %	Responses
0-1 ppm above background	0%	<ul style="list-style-type: none"> <li>• Continue excavating</li> <li>• Level D protection</li> <li>• Continue monitoring every 10 minutes</li> </ul>
1-5 ppm Above Background, Sustained Reading	1-10%	<ul style="list-style-type: none"> <li>• Continue excavating</li> <li>• Go to Level C protection or employ</li> </ul>

		<p>engineering controls</p> <ul style="list-style-type: none"> <li>• Continue monitoring every 10 minutes</li> </ul>
5-25 ppm Above Background, Sustained Reading	10-20%	<ul style="list-style-type: none"> <li>• Discontinue excavating, unless PID is only action level exceeded.</li> <li>• Level C protection or employ engineering controls</li> <li>• Continue monitoring for organic vapors 200 ft downwind</li> <li>• Continuous monitoring for LEL at excavation pit</li> </ul>
>25 ppm Above Background, Sustained Reading	>20%	<ul style="list-style-type: none"> <li>• Discontinue excavating</li> <li>• Withdraw from area, shut off all engine ignition sources.</li> <li>• Allow pit to vent</li> <li>• Continuous monitoring for organic vapors 200 ft downwind.</li> </ul>

Notes: Air monitoring will occur in the breathing zone 30 inches above the excavation pit. Readings may also be taken in the excavation pit but will not be used for action levels.

If action levels for any one of the monitoring parameters are exceeded, the appropriate responses listed in the right hand column should be taken. If instrument readings do not return to acceptable levels after the excavation pit has been vented for a period of greater than one-half hour, a decision will then be made whether or not to seal the pit with suppressant foam.

If, during excavation activities, downwind monitoring PID readings are greater than 5 ppm above background for more than one-half hour, excavation will stop until sustained levels are less than 5 ppm (see Community Air Monitoring Plan).

## 6.0 SITE CONTROL

### 6.1 Work Zones

The primary purpose of site controls is to establish the perimeter of a hazardous area, to reduce the migration of contaminants into clean areas, and to prevent access or exposure to hazardous materials by unauthorized persons. When operations are to take place involving hazardous materials, the site safety officer will establish an exclusion zone, a decontamination zone, and a support zone. These zones "float" (move around the site) depending on the tasks being performed on any given day. The site safety officer will outline these locations before work begins and when zones change. The site safety officer records this information in the site log book.

**Due to the dimensions of the Site and the work area, it is expected that an exclusion zone will include the entire fenced area with the exception of the construction entrance area, which will serve as the decontamination zone. A support zone if needed will be located outside of the fenced area.** All onsite workers during excavation of historic fill materials must provide evidence of OSHA 24 or 40-hour Hazardous Waste Operations and Emergency Response Operations training to conduct work within the exclusion zone established by the site safety officer. The exclusion zone is defined by the site safety officer but will typically be a 50-foot area around work activities. Gross decontamination (as determined by the site Health and Safety Officer) is conducted in the exclusion zone; all other decontamination is performed in the decontamination zone or trailer, if provided.

Protective equipment is removed in the decontamination zone. Disposable protective equipment is stored in receptacles staged in the decontamination zone, and non-disposable equipment is decontaminated. All personnel and equipment exit the exclusion zone through the decontamination zone. If a decontamination trailer is provided the first aid equipment, an eye wash unit, and drinking water are kept in the decontamination trailer.

The support zone is used for vehicle parking, daily safety meetings, and supply storage. Eating, drinking, and smoking are permitted only in the support zone. When a decontamination trailer is not provided, the eye wash unit, first aid equipment, and drinking water are kept at a central location designated by the site safety officer.

## 7.0 CONTINGENCY PLAN/EMERGENCY RESPONSE PLAN

Site personnel must be prepared in the event of an emergency. Emergencies can take many forms: illnesses, injuries, chemical exposure, fires, explosions, spills, leaks, releases of harmful contaminants, or sudden changes in the weather.

Emergency telephone numbers and a map to the hospital will be posted in the command post. Site personnel should be familiar with the emergency procedures, and the locations of site safety, first aid, and communication equipment.

### 7.1 Emergency Equipment On-site

Private telephones:	Site personnel.
Two-way radios:	Site personnel where necessary.
Emergency Alarms:	On-site vehicle horns*.
First aid kits:	On-site, in vehicles or office.
Fire extinguisher:	On-site, in office or on equipment.

\* Horns: Air horns will be supplied to personnel at the discretion of the project superintendent or site safety officer.

### 7.2 Emergency Telephone Numbers

General Emergencies	911
Suffolk County Police	911
NYC Fire Department	911
Woodhull Medical Center	(718) 963-7958
NYSDEC Spills Hotline	1-800-457-7362
NYSDEC Project Manager	(718) 482-4010
NYC Department of Health	(212) 676-2400
National Response Center	1-800-424-8802
Poison Control	1-800-222-1222
Project Manager	1-631-504-6000
Site Safety Officer	1-631-504-6000

### 7.3 Personnel Responsibilities During an Emergency

The project manager is primarily responsible for responding to and correcting any emergency situations. However, in the absence of the project manager, the site safety officer shall act as the project manager's on-site designee and perform the following tasks:

- Take appropriate measures to protect personnel including: withdrawal from the exclusion zone, evacuate and secure the site, or upgrade/downgrade the level of protective clothing and respiratory protection;
- Ensure that appropriate federal, state, and local agencies are informed and emergency response plans are coordinated. In the event of fire or explosion, the local fire department should be summoned immediately. If toxic materials are released to the air, the local authorities should be informed in order to assess the need for evacuation;
- Ensure appropriate decontamination, treatment, or testing for exposed or injured

personnel;

- Determine the cause of incidents and make recommendations to prevent recurrence; and,
- Ensure that all required reports have been prepared.

The following key personnel are planned for this project:

- Project Manager Mr. Kevin Brussee (631) 504-6000
- Site Safety Officer Mr. Kevin Waters (631) 504-6000

#### 7.4 Medical Emergencies

A person who becomes ill or injured in the exclusion zone will be decontaminated to the maximum extent possible. If the injury or illness is minor, full decontamination will be completed and first aid administered prior to transport. First aid will be administered while waiting for an ambulance or paramedics. A Field Accident Report (**Appendix D**) must be filled out for any injury.

A person transporting an injured/exposed person to a clinic or hospital for treatment will take the directions to the hospital (**Appendix D**), and information on the chemical(s) to which they may have been exposed (**Appendix C**).

#### 7.5 Fire or Explosion

In the event of a fire or explosion, the local fire department will be summoned immediately. The site safety officer or his designated alternate will advise the fire commander of the location, nature and identification of the hazardous materials on-site. If it is safe to do so, site personnel may:

- use fire fighting equipment available on site; or,
- remove or isolate flammable or other hazardous materials that may contribute to the fire.

#### 7.6 Evacuation Routes

Evacuation routes established by work area locations for each site will be reviewed prior to commencing site operations. As the work areas change, the evacuation routes will be altered accordingly, and the new route will be reviewed.

Under extreme emergency conditions, evacuation is to be immediate without regard for equipment. The evacuation signal will be a continuous blast of a vehicle horn, if possible, and/or by verbal/radio communication. When evacuating the site, personnel will follow these instructions:

- Keep upwind of smoke, vapors, or spill location.
- Exit through the decontamination corridor if possible.
- If evacuation through the decontamination corridor is not possible, personnel should remove contaminated clothing once they are in a safe location and leave it near the exclusion zone or in a safe place.
- The site safety officer will conduct a head count to ensure that all personnel have been

evacuated safely. The head count will be correlated to the site and/or exclusion zone entry/exit log.

- If emergency site evacuation is necessary, all personnel are to escape the emergency situation and decontaminate to the maximum extent practical.

### **7.7 Spill Control Procedures**

Spills associated with site activities may be attributed to project equipment and include gasoline, diesel and hydraulic oil. In the event of a leak or a release, site personnel will inform their supervisor immediately, locate the source of spillage and stop the flow if it can be done safely. A spill containment kit including absorbent pads, booms and/or granulated speedy dry absorbent material will be available to site personnel to facilitate the immediate recovery of the spilled material. Daily inspections of site equipment components including hydraulic lines, fuel tanks, etc. will be performed by their respective operators as a preventative measure for equipment leaks and to ensure equipment soundness. In the event of a spill, site personnel will immediately notify the NYSDEC (1-800-457-7362), and a spill number will be generated.

### **7.8 Vapor Release Plan**

If work zone organic vapor (excluding methane) exceeds 5 ppm, then a downwind reading will be made either 200 feet from the work zone or at the property line, whichever is closer. If readings at this location exceed 5 ppm over background, the work will be stopped.

If 5 ppm of VOCs are recorded over background on a PID at the property line, then an off-site reading will be taken within 20 feet of the nearest residential or commercial property, whichever is closer. If efforts to mitigate the emission source are unsuccessful for 30 minutes, then the designated site safety officer will:

- contact the local police;
- continue to monitor air every 30 minutes, 20 feet from the closest off-site property. If two successive readings are below 5 ppm (non-methane), off-site air monitoring will be halted.
- All property line and off site air monitoring locations and results associated with vapor releases will be recorded in the site safety log book.

***APPENDIX A***  
***SITE SAFETY ACKNOWLEDGEMENT FORM***

## DAILY BREIFING SIGN-IN SHEET

Date: \_\_\_\_\_ Person Conducting Briefing: \_\_\_\_\_

Project Name and Location: \_\_\_\_\_

1. AWARENESS (topics discussed, special safety concerns, recent incidents, etc...):

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---

2. OTHER ISSUES (HASP changes, attendee comments, etc...):

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3. ATTENDEES (Print Name):

1.	11.
2.	12.
3.	13.
4.	14.
5.	15.
6.	16.
7.	17.
8.	18.
9.	19.
10.	20.



***APPENDIX B***  
***SITE SAFETY PLAN AMENDMENTS***



**SITE SAFETY PLAN AMENDMENT FORM**

Site Safety Plan Amendment #: \_\_\_\_\_

Site Name: \_\_\_\_\_

Reason for Amendment: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Alternative Procedures: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Required Changes in PPE: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Project Superintendent (signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Health and Safety Consultant (signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Site Safety Officer (signature)

\_\_\_\_\_  
Date

***APPENDIX C***  
***CHEMICAL HAZARDS***



***APPENDIX D***  
***HOSPITAL INFORMATION AND MAP***  
***FIELD ACCIDENT REPORT***

FIELD ACCIDENT REPORT

This report is to be filled out by the designated Site Safety Officer after EVERY accident.

PROJECT NAME \_\_\_\_\_ PROJECT. NO. \_\_\_\_\_

Date of Accident \_\_\_\_\_ Time \_\_\_\_\_ Report By \_\_\_\_\_

Type of Accident (Check One):

Vehicular             Personal             Property

Name of Injured \_\_\_\_\_ DOB or Age \_\_\_\_\_

How Long Employed \_\_\_\_\_

Names of Witnesses \_\_\_\_\_  
\_\_\_\_\_

Description of Accident \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Action Taken \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Did the Injured Lose Any Time? \_\_\_\_\_ How Much (Days/Hrs.)? \_\_\_\_\_

Was Safety Equipment in Use at the Time of the Accident (Hard Hat, Safety Glasses, Gloves, Safety Shoes, etc.)? \_\_\_\_\_  
\_\_\_\_\_

(If not, it is the EMPLOYEE'S sole responsibility to process his/her claim through his/her Health and Welfare Fund.)

INDICATE STREET NAMES, DESCRIPTION OF VEHICLES, AND NORTH ARROW

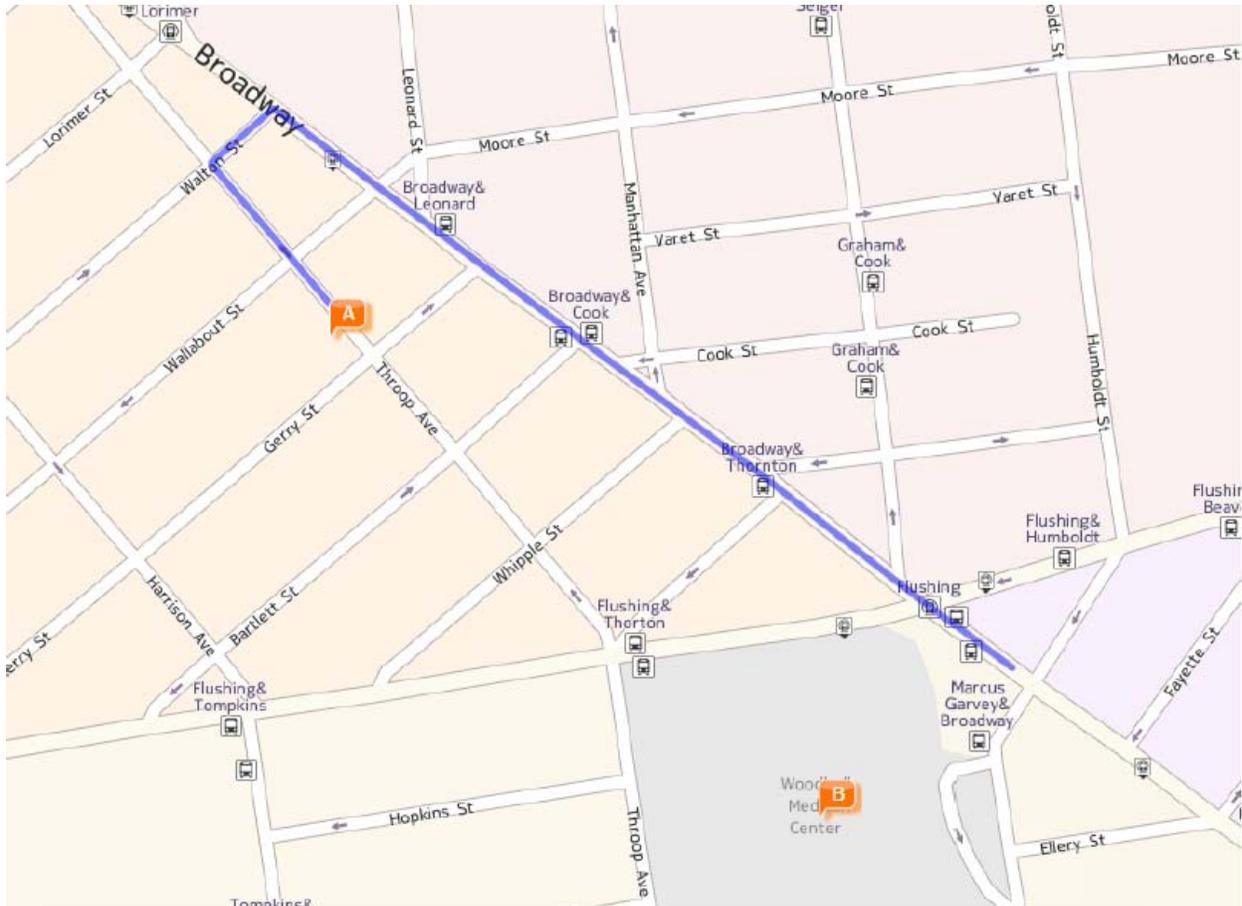
## HOSPITAL INFORMATION AND MAP

### The hospital nearest the site is:

Woodhull Medical Center  
760 Broadway  
Brooklyn, NY 11206  
(718) 963-8000

Distance: 0.5 miles

Time: 5 minutes (approximate)



### Directions

1. [Head toward Wallabout St on Throop Ave.](#)
2. [Turn right onto Walton St.](#)
3. [Turn right onto Broadway.](#)
4. [Your destination on Broadway is on the right. The trip takes 0.5 mi and 5 mins.](#)

[760 Broadway, Brooklyn, NY 11206-5317](#)

**ATTACHMENT F**  
**VAPOR BARRIER SPECIFICATIONS**

# VAPORBLOCK® PLUS™ VBP20

Under-Slab Vapor / Gas Barrier

## Product Description

VaporBlock® Plus™ 20 is a seven-layer co-extruded barrier made from state-of-the-art polyethylene and EVOH resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission. VaporBlock® Plus™ 20 is a highly resilient underslab / vertical wall barrier designed to restrict naturally occurring gases such as radon and/or methane from migrating through the ground and concrete slab. VaporBlock® Plus™ 20 is more than 100 times less permeable than typical high-performance polyethylene vapor retarders against Methane, Radon and other harmful VOCs.

VaporBlock® Plus™ 20 is one of the most effective underslab gas barriers in the building industry today far exceeding ASTM E-1745 (Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs) Class A, B and C requirements. Available in a 20 (Class A) mil thicknesses designed to meet the most stringent requirements. VaporBlock® Plus™ 20 is produced within the strict guidelines of our ISO 9001:2008 Certified Management System.

## Product Use

VaporBlock® Plus™ 20 resists gas and moisture migration into the building envelop when properly installed to provide protection from toxic/harmful chemicals. It can be installed as part of a passive or active control system extending across the entire building including floors, walls and crawl spaces. When installed as a passive system it is recommended to also include a ventilated system with sump(s) that could be converted to an active control system with properly designed ventilation fans.

VaporBlock® Plus™ 20 works to protect your flooring and other moisture-sensitive furnishings in the building's interior from moisture and water vapor migration, greatly reducing condensation, mold and degradation.

## Size & Packaging

VaporBlock® Plus™ 20 is available in 10' x 150' rolls to maximize coverage. All rolls are folded on heavy-duty cores for ease in handling and installation. Other custom sizes with factory welded seams are available based on minimum volume requirements. Installation instructions and ASTM E-1745 classifications accompany each roll.



Under-Slab Vapor/Gas Retarder

## Product

## Part #

VaporBlock Plus 20 ..... VBP 20

## APPLICATIONS

Radon Barrier	Under-Slab Vapor Retarder
Methane Barrier	Foundation Wall Vapor Retarder
VOC Barrier	

**VaporBlock® Plus™**  
UNDERSLAB VAPOR RETARDER / GAS BARRIER

# VAPORBLOCK® PLUS™ VBP20

Under-Slab Vapor / Gas Barrier

		VAPORBLOCK PLUS 20	
PROPERTIES	TEST METHOD	IMPERIAL	METRIC
APPEARANCE		White/Gold	
THICKNESS, NOMINAL		20 mil	0.51 mm
WEIGHT		102 lbs/MSF	498 g/m <sup>2</sup>
CLASSIFICATION	ASTM E 1745	CLASS A, B & C	
TENSILE STRENGTH LBF/IN (N/CM) AVERAGE MD & TD (NEW MATERIAL)	ASTM E 154 Section 9 (D-882)	58 lbf	102 N
IMPACT RESISTANCE	ASTM D 1709	2600 g	
MAXIMUM USE TEMPERATURE		180° F	82° C
MINIMUM USE TEMPERATURE		-70° F	-57° C
PERMEANCE (NEW MATERIAL)	ASTM E 154 Section 7  ASTM E 96 Procedure B	0.0051 Perms grains/(ft <sup>2</sup> ·hr·in·Hg)	0.0034 Perms g/(24hr·m <sup>2</sup> ·mm Hg)
RADON DIFFUSION COEFFICIENT	K124/02/95	< 1.1 x 10 <sup>-13</sup> m <sup>2</sup> /s	
METHANE PERMEANCE	ASTM D 1434	< 1.7 x 10 <sup>-10</sup> m <sup>2</sup> /d·atm 0.32 GTR (Gas Transmission Rate) ml/m <sup>2</sup> ·D·ATM	

## VaporBlock® Plus™ Placement

All instructions on architectural or structural drawings should be reviewed and followed.

Detailed installation instructions accompany each roll of VaporBlock® Plus™ and can also be located on our website.

ASTM E-1643 also provides general installation information for vapor retarders.

**VaporBlock® Plus™**  
UNDERSLAB VAPOR RETARDER / GAS BARRIER

VaporBlock® Plus™ is a seven-layer co-extruded barrier made using high quality virgin-grade polyethylene and EVOH resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

**RAVEN**  
INDUSTRIES

### Engineered Films Division

P.O. Box 5107  
Sioux Falls, SD 57117-5107  
Ph: (605) 335-0174 • Fx: (605) 331-0333

Limited Warranty available at [www.RavenEFD.com](http://www.RavenEFD.com)

Toll Free: 800-635-3456  
Email: [efdsales@ravenind.com](mailto:efdsales@ravenind.com)  
[www.ravenefd.com](http://www.ravenefd.com)

10/10 EFD 1125



June 18, 2013

New York City Office of Environmental Remediation  
City Voluntary Cleanup Program  
c/o Shaminder Chawla  
100 Gold Street, 2<sup>nd</sup> Floor  
New York, NY 10038

**Re:** 13CVCP147K  
82 Throop Avenue  
Brooklyn, NY  
Remedial Action Work Plan (RAWP) Stipulation List

Dear Mr. Zhang:

Environmental Business Consultants (EBC or the consultant) hereby submits a Remedial Action Work Plan (RAWP) Stipulation List for the 82 Throop (the Site) to the New York City Office of Environmental Remediation (OER) on behalf of Throop Wallabout Realty, LLC. This letter serves as an addendum to the RAWP to stipulate additional content, requirements, and procedures that will be followed during the Site remediation. The contents of this list are added to the RAWP and will supersede the content in the RAWP where there is a conflict in purpose or intent. The additional requirements/procedures include the following Stipulation List below:

1. The criterion attached in **Appendix 1** will be utilized if additional petroleum containing tanks or vessels are identified during the remedial action or subsequent redevelopment excavation activities. All petroleum spills will be reported to the NYSDEC hotline as required by applicable laws and regulations. This contingency plan is designed for heating oil tanks and other small or moderately sized storage vessels. If larger tanks, such as gasoline storage tanks are identified, OER will be notified before this criterion is utilized.
2. A pre-construction meeting is required prior to the start of remedial excavation work at the Site. A pre-construction meeting will be held at the Site and will be attended by OER, the developer or developer representative, the consultant, excavation/general contractor, and if applicable, the soil broker.
3. A pre-approval letter from all disposal facilities will be provided to OER prior to any soil/fill material removal from the Site. Documentation specified in the RAWP - Appendix D - Section 1.6 "Materials Disposal Off-Site" will be provided to OER. If a different disposal facility for the soil/fill material is selected, OER will be notified immediately.
4. A CD containing the final RAWP including this approved Stipulation List will be placed in the library that constitutes the primary public repository for project documents.
5. Signage for the project will include a sturdy placard mounted in a publically accessible right of way to building and other permits signage will consist of the NYC VCP Information Sheet (attached **Appendix 2**) announcing the remedial action. The Information sheet will be laminated and permanently affixed to the placard.
6. This NYC VCP project involving the removal and transportation of hazardous waste may be subject to the New York state Department of Environmental Conservation's Special Assessment Tax (ECL 27-0923) and Hazardous Waste Regulatory Fees (ECL 72-00402). See DEC's website for more information: <http://www.dec.ny.gov/chemical/9099.html>.
7. Collection and analysis of four post-excavation samples from the bottom of the excavation will be collected to evaluate the performance of the remedy with respect to attainment of Track 1 SCOs.



Revised Figure 6 indicating End point post-excavation sampling locations is attached in **Appendix 3**. Samples will be analyzed for VOCs, SVOCs metals and pesticides from all sampling locations.

8. The stamped/signed RAWP certification page is included in **Appendix 4**.
9. **Appendix 5** includes Vapor Barrier Pre-Certification letter from Vapor Barrier manufacturer stating that the proposed vapor barrier system mitigates against the contaminants of concern at the site.
10. OER requires parties seeking City Brownfield Incentive Grants (BIG) grants to carry insurance. For a cleanup grant, both the excavator and the trucking firm(s) that handle removal of soil must carry or be covered under a commercial general liability (CGL) policy and a contractors pollution liability (CPL) policy, both of which must provide \$1 million per claim in coverage. Both policies must name the City of New York, the NYC Economic Development Corporation, and Brownfield Redevelopment Solutions as additional insured. A fact sheet regarding insurance is attached as **Appendix 6**.
11. Daily report will be provided during active excavation work. If no work is performed for extended time period, daily report frequency will be reduced to weekly basis. Daily report template is attached in **Appendix 7**.
12. Drawings for the passive sub-slab depressurization system design are attached as Appendix 8.

**Environmental Business Consultants**

Kevin Brussee

cc: S. Chawla, OER

## **Addendum 1**

# Generic Procedures for Management of Underground Storage Tanks identified under the NYC BCP

Prior to Tank removal, the following procedures should be followed:

- Remove all fluid to its lowest draw-off point.
- Drain and flush piping into the tank.
- Vacuum out the “tank bottom” consisting of water product and sludge.
- Dig down to the top of the tank and expose the upper half.
- Remove the fill tube and disconnect the fill, gauge, product, vent lines and pumps. Cap and plug open ends of lines.
- Temporarily plug all tank openings, complete the excavation, remove the tank and place it in a secure location.
- Render the tank safe and check the tank atmosphere to ensure that petroleum vapors have been satisfactorily purged from the tank.
- Clean tank or remove to storage yard for cleaning.
- If the tank is to be moved, it must be transported by licensed waste transporter. Plug and cap all holes prior to transport leaving a 1/8 inch vent hole located at the top of the tank during transport.
- After cleaning, the tank must be made acceptable for disposal at a scrap yard, cleaning the tanks interior with a high pressure rinse and cutting the tank in several pieces.

During the tank and pipe line removal, the following field observations should be made and recorded:

- A description and photographic documentation of the tank and pipe line condition (pitting, holes, staining, leak points, evidence of repairs, etc.).
- Examination of the excavation floor and sidewalls for physical evidence of contamination (odor, staining, sheen, etc.).
- Periodic field screening (through bucket return) of the floor and sidewalls of the excavation, with a calibrated photoionization detector (PID).

### Impacted Soil Excavation Methods

The excavation of the impacted soil will be performed following the removal of the existing tanks. Soil excavation will be performed in accordance with the procedures described under Section 5.5 of Draft DER-10 as follows:

- A description and photographic documentation of the excavation.
- Examination of the excavation floor and sidewalls for physical evidence of contamination (odor, staining, sheen, etc.).
- Periodic field screening (through bucket return) of the floor and sidewalls of the excavation, with calibrated photoionization detector (PID).

Final excavation depth, length, and width will be determined in the field, and will depend on the horizontal and vertical extent of contaminated soils as identified through physical examination (PID response, odor, staining, etc.). Collection of verification samples will be performed to evaluate the success of the removal action as specified in this document.

The following procedure will be used for the excavation of impacted soil (as necessary and appropriate):

- Wear appropriate health and safety equipment as outlined in the Health and Safety Plan.
- Prior to excavation, ensure that the area is clear of utility lines or other obstructions. Lay plastic sheeting on the ground next to the area to be excavated.
- Using a rubber-tired backhoe or track mounted excavator, remove overburden soils and stockpile, or dispose of, separate from the impacted soil.
- If additional UST's are discovered, the NYSDEC will be notified and the best course of action to remove the structure should be determined in the field. This may involve the continued trenching around the perimeter to minimize its disturbance.
- If physically contaminated soil is present (e.g., staining, odors, sheen, PID response, etc.) an attempt will be made to remove it, to the extent not limited by the site boundaries or the bedrock surface. If possible, physically impacted soil will be removed

using the backhoe or excavator, segregated from clean soils and overburden, and staged on separated dedicated plastic sheeting or live loaded into trucks from the disposal facility. Removal of the impacted soils will continue until visibly clean material is encountered and monitoring instruments indicate that no contaminants are present.

- Excavated soils which are temporarily stockpiled on-site will be covered with tarp material while disposal options are determined. Tarp will be checked on a daily basis and replaced, repaired or adjusted as needed to provide full coverage. The sheeting will be shaped and secured in such a manner as to drain runoff and direct it toward the interior of the property.

Once the site representative and regulatory personnel are satisfied with the removal effort, verification of confirmatory samples will be collected from the excavation in accordance with DER-10.

**Addendum 2**  
**Signage**



# NYC Brownfield Cleanup Program

This property is enrolled in the New York City Brownfield Cleanup Program for environmental remediation. This is a voluntary program administered by the NYC Office of Environmental Remediation.

For more information, log on to:  
[www.nyc.gov/oer](http://www.nyc.gov/oer)



If you have questions or would like more information, please contact:

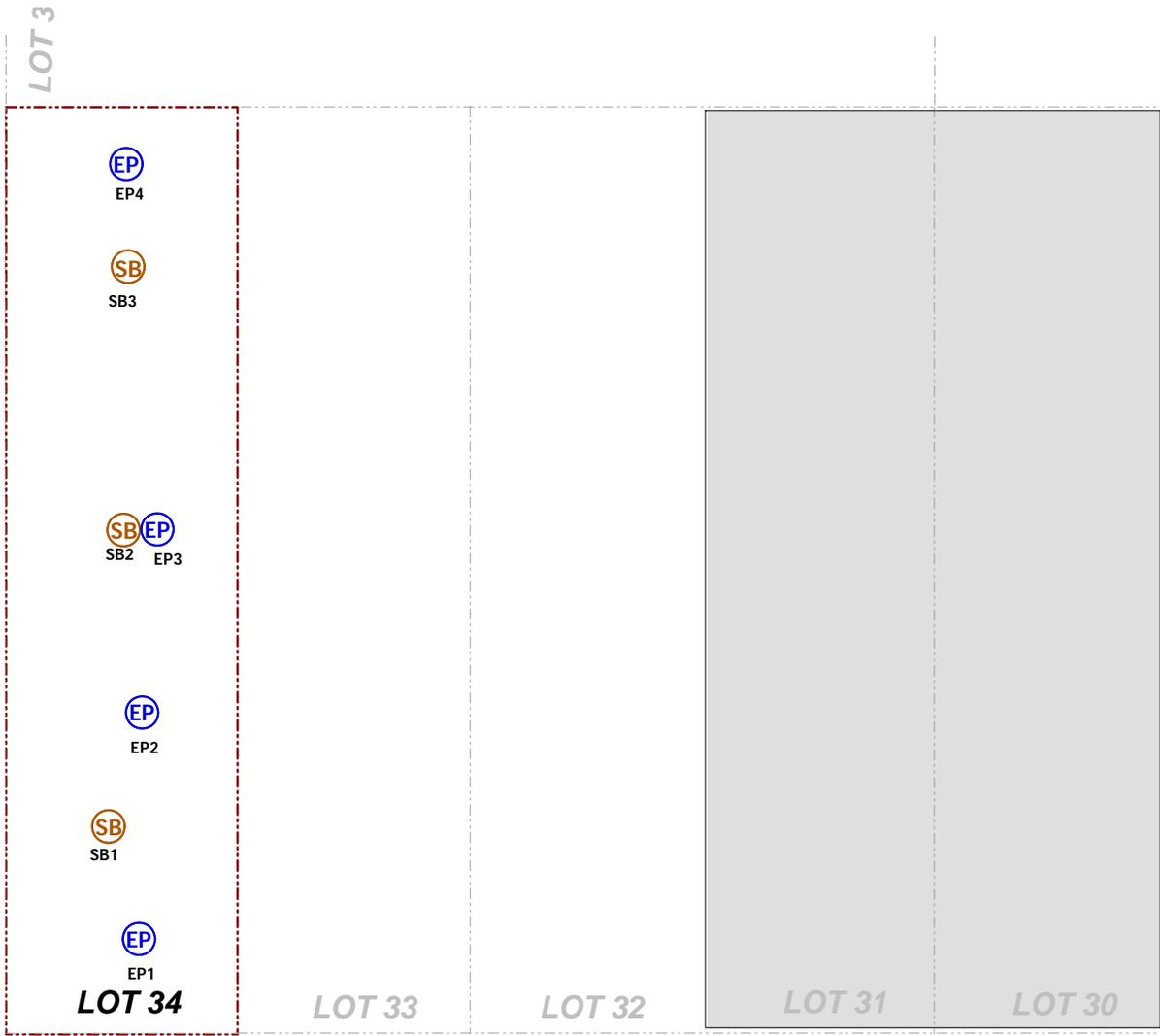
Shaminder Chawla at (212) 788-8841  
or email us at [brownfields@cityhall.nyc.gov](mailto:brownfields@cityhall.nyc.gov)

82 Throop Avenue  
Site #: 13CVCP147K

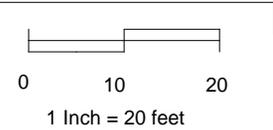
**Addendum 3**  
Endpoint Sampling Plan

GERRY STREET

THROOP AVENUE



SCALE:



KEY:

-  RI Soil Boring Location
-  Endpoint Sample Location Analyzed for SVOCs, Metals, Pesticides

 Property Boundary



ENVIRONMENTAL BUSINESS CONSULTANTS

1808 MIDDLE COUNTRY ROAD, RIDGE, NY 11961

Phone 631.504.6000

Fax 631.924.2780

82 THROOP AVENUE  
BROOKLYN, NY 11206

FIGURE 6 SITE SAMPLING LOCATIONS



*ENVIRONMENTAL BUSINESS CONSULTANTS*

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# Addendum 4 RAWP Certification



*ENVIRONMENTAL BUSINESS CONSULTANTS*

1808 MIDDLE COUNTRY ROAD  
RIDGE, NY 11961

PHONE 631.504.6000  
FAX 631.924.2870

---

## CERTIFICATION

I, Ariel Czemerinski, am a Professional Engineer licensed in the State of New York. I have primary direct responsibility for implementation of the remedial action for the Redevelopment Project located at 82 Throop Avenue, Brooklyn, New York, VCP Site number 13CVCP147K.

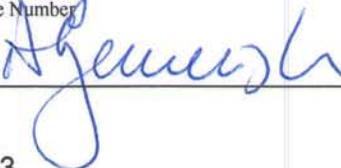
I certify that this Remedial Action Work Plan (RAWP) has a plan for handling, transport and disposal of soil, fill, fluids and other materials removed from the property in accordance with applicable City, State and Federal laws and regulations. Importation of all soil, fill and other material from off-Site will be in accordance with all applicable City, State and Federal laws and requirements. This RAWP has provisions to control nuisances during the remediation and all invasive work, including dust and odor suppression.

Ariel Czemerinski

Name

076508

NYS PE License Number



Signature

7/16/2013

Date



**Addendum 5**  
Vapor Barrier Compatibility Letter



June 19, 2013

Mr. Kevin Brussee  
Environmental Business Consultants  
1808 Middle Country Road  
Ridge, New York 11961

Dear Mr. Brussee,

I have reviewed the Remedial Investigation Report (EBC, June 2013) for the remediation/construction project located at 82 Throop Avenue in Brooklyn, NY and noted the contaminants specifically described on the following pages:

- Table 2 - Soil Analytical Results (VOCs)
- Table 3 - Soil Analytical Results (SVOCs)
- Table 4 - Soil Analytical Results (Pesticides/PCBs)
- Table 5 - Soil Analytical Results (Metals)
- Table 6 - Groundwater Analytical Results (VOCs)
- Table 7 - Groundwater Analytical Results (SVOCs)
- Table 8 - Groundwater Analytical Results (Pesticides/PCBs)
- Table 9 - Groundwater Analytical Results (Dissolved Metals)
- Table 10 - Groundwater Analytical Results (Total Metals)
- Table 11 - Soil Gas Analytical Results (VOCs)

- Figure 6 - Soil Exceedences Map
- Figure 7 - Groundwater Exceedences Map
- Figure 8 - Soil Vapor Detections

The identified contaminants at the levels reported will not have an adverse effect on the intended performance of VaporBlock Plus VBP20 as a vapor barrier, provided standard design and application procedures are followed. Standard installation instructions and details can be found on our website at [www.ravenefd.com](http://www.ravenefd.com).

If you have any questions, please feel free to call me at the number above.

Sincerely,

A handwritten signature in cursive script that reads "Erika Arens".

Erika Arens  
Product Development Specialist  
Engineered Films Division  
Raven Industries, Inc.  
(605) 357-0453  
[Erika.Arens@ravenind.com](mailto:Erika.Arens@ravenind.com)

**Addendum 6**  
**Insurance Fact Sheet**

## FACT SHEET – BIG PROGRAM INSURANCE REQUIREMENTS

**Investigation Grants** – for a developer or site owner to be eligible for a BIG investigation grant, its environmental consultant(s) must be:

- a Qualified Vendor in the BIG Program; and
- maintain Professional Liability (PL) insurance of \$1M per claim and annual aggregate.

**Cleanup Grants** – for a developer or site owner to be eligible for a BIG cleanup grant:

- Its general contractor or excavation/foundation contractor hired to perform remedial work must maintain:
  - a. Commercial General Liability(CGL) insurance of at least \$1M per occurrence and \$2M in the general aggregate; and
  - b. Contractors Pollution Liability (CPL) insurance of at least \$1M per occurrence.

Both policies must list the city, EDC and BRS as additional insureds, include completed operations coverage and be primary and non-contributory to any other insurance the additional insureds may have.

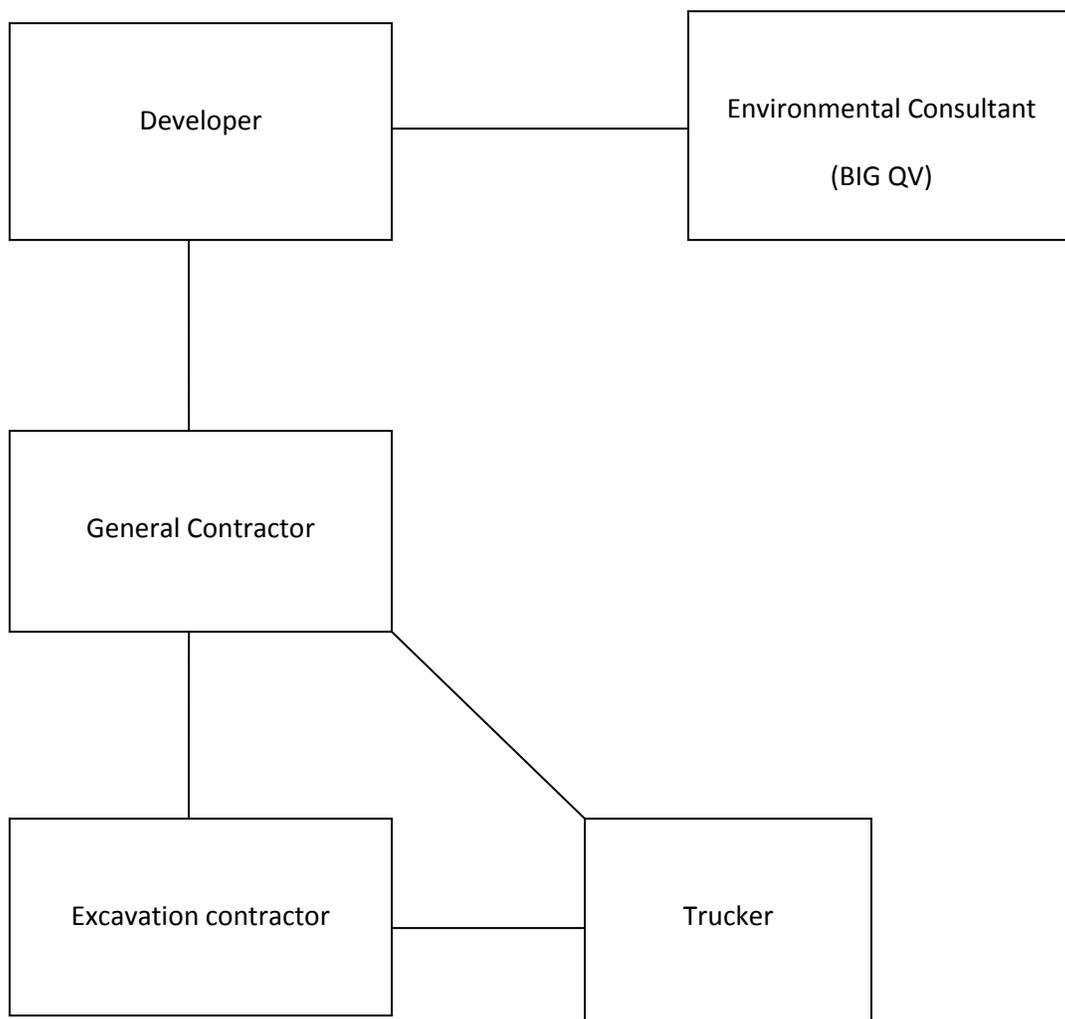
- Its subcontractors who are hired by the general contractor etc. to perform remedial work at a site, including soil brokers and truckers, must also maintain CGL and CPL policies in the amount and with the terms set forth above; and
- Its environmental consultant(s) hired to oversee the cleanup must be:
  - a. a BIG Qualified Vendor; and
  - b. maintain Professional Liability (PL) insurance of \$1M per claim and annual aggregate.

If, in the alternative, the developer hires its environmental consultant to perform the cleanup, the environmental consultant must maintain CGL and CPL insurance in the amount and with the terms set forth above.

A schematic presenting the contractual relationships described above appears on page 2. Parties who must be named as Additional Insureds on Cleanup Grant insurance policies (CGL and CPL) are presented on page 3.

**Example of Contractual Relationships for Cleanup Work**

The Office of Environmental Remediation’s Voluntary Cleanup Plan program requires applicants to identify the parties who are engaged in active remediation of their sites including: the General Contractor hired to remediate and/or the excavation contractor hired to excavate soil from the site and the trucking firm(s) that remove soil from the site for disposal at approved facilit(ies).



The chart above shows contractual relationships that typically exist for projects that are enrolled in the Voluntary Cleanup Program.

**BIG Program Additional Insureds**

The full names and addresses of the additional insureds required under the Required CGL and Required CPL Policies are as follows:

“City and its officials and employees”  
New York City Mayor’s Office of Environmental Remediation  
253 Broadway, 14th Floor  
New York, NY 10007

“NYC EDC and its officials and employees”  
New York City Economic Development Corporation  
110 William Street  
New York, NY 10038

“BIG Grant Administrator and its officials and employees”  
Brownfield Redevelopment Solutions, Inc.  
739 Stokes Road, Units A & B  
Medford, NJ 08055



*ENVIRONMENTAL BUSINESS CONSULTANTS*

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# Addendum 7 Daily Status Report Template



*ENVIRONMENTAL BUSINESS CONSULTANTS*

1808 MIDDLE COUNTRY ROAD  
RIDGE, NY 11961

PHONE 631.504.6000  
FAX 631.924.2870

---

## Generic Template for Daily Status Report

### Instructions

The Daily Status Report submitted to OER should adhere to the following conventions:

- Remove this cover sheet prior to editing.
- Remove all the **red text** and replace with site-specific information.
- Submit the final version as a Word or PDF file.

### Daily Status Reports

Daily status reports providing a general summary of activities for each day of *active remedial work* will be emailed to the OER Project Manager by the end of the following day. Those reports will include:

- Project number and statement of the activities and an update of progress made and locations of work performed;
- Quantities of material imported and exported from the Site;
- Status of on-Site soil/fill stockpiles;
- A summary of all citizen complaints, with relevant details (basis of complaint; actions taken; etc.);
- A summary of CAMP excursions, if any;
- Photograph of notable Site conditions and activities.

The frequency of the reporting period may be revised in consultation with OER project manager based on planned project tasks. Daily email reports are not intended to be the primary mode of communication for notification to OER of emergencies (accidents, spills), requests for changes to the RAWP or other sensitive or time critical information. However, such information will be included in the daily reports. Emergency conditions and changes to the RAWP will be communicated directly to the OER project manager by personal communication. Daily reports will be included as an Appendix in the Remedial Action Report.

# DAILY STATUS REPORT

Prepared By: Enter Your Name Here

WEATHER	Snow		Rain		Overcast		Partly Cloudy	X	Bright Sun	
TEMP.	< 32		32-50		50-70	X	70-85		>85	

VCP Project No.:	13CVCP000M	E-Number:	13EHAN000M	Date:	01/01/2013
Project Name:	Name or Address				

Consultant: Person(s) Name and Company Name	Safety Officer: Person(s) Name and Company Name
General Contractor: Person(s) Name and Company Name	Site Manager/ Supervisor: Person(s) Name and Company Name

Work Activities Performed (Since Last Report):  
Provide details about the work activities performed.

Working In Grid #: A1, B1, C1

Samples Collected (Since Last Report):  
No samples collected or provide details

Air Monitoring (Since Last Report):  
No air monitoring performed or provide details

Problems Encountered:  
No problems encountered or provide details

Planned Activities for the Next Day/ Week:  
Provide details about the work activities planned for the next day/ week.

									Example:	
Facility # Name/ Location Type of Waste Solid <u>Or</u> Liquid	Facility # Name Location Type of Waste Solid <u>Or</u> Liquid		##### Clean Earth Carteret, NJ petroleum soils Solid							
(Trucks, Cu.Yds. <u>Or</u> Gallons)	Trucks	Cu. Yds. <u>Or</u> Gallons	Trucks	Cu. Yds.						
Today									5	120
Total									25	600

NYC Clean Soil Bank		Receiving Facility: Name/ Address (Approved by OER)			
Tracking No.:	13CCSB000				
Today	Trucks 5	Cu. Yds. 25	Total	Trucks 120	Cu. Yds. 600

Site Grid Map

Insert the site grid map here

**Photo Log**

Photo 1 – provide a caption	Insert Photo Here – Photo of the entire site
Photo 2 – provide a caption	Insert Photo Here – Photo of the work activities performed
Photo 3 – provide a caption	Insert Photo Here – Photo of the work activities performed



*ENVIRONMENTAL BUSINESS CONSULTANTS*

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# Addendum 8 SSDS Drawings



*ENVIRONMENTAL BUSINESS CONSULTANTS*

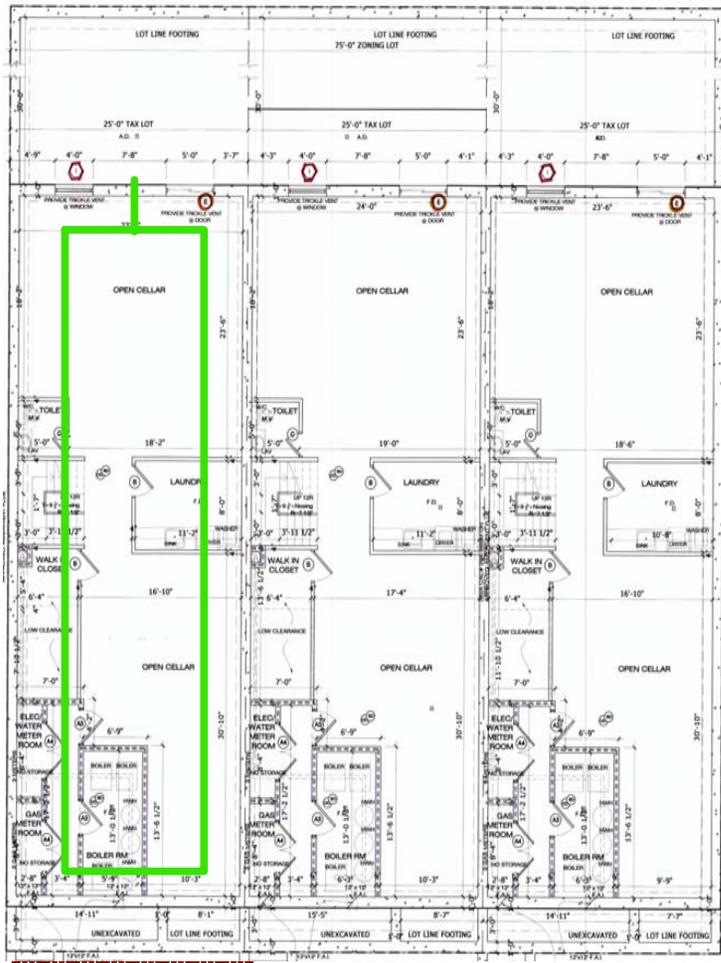
1808 MIDDLE COUNTRY ROAD  
RIDGE, NY 11961

PHONE 631.504.6000  
FAX 631.924.2870

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GERRY STREET

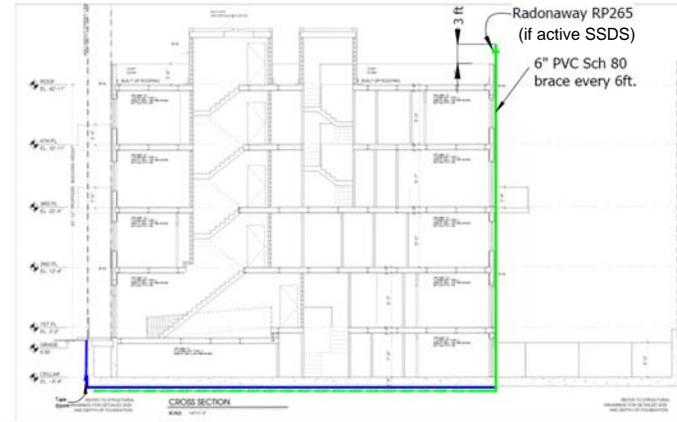


LOT 34

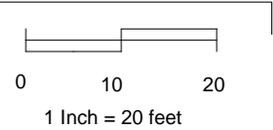
LOT 33

LOT 32

THROOP AVENUE



SCALE:



KEY:

- - - - Property Boundary
- 4" SSDS Piping



**ENVIRONMENTAL BUSINESS CONSULTANTS**  
1808 MIDDLE COUNTRY ROAD, RIDGE, NY 11961

Phone 631.504.6000  
Fax 631.924.2780

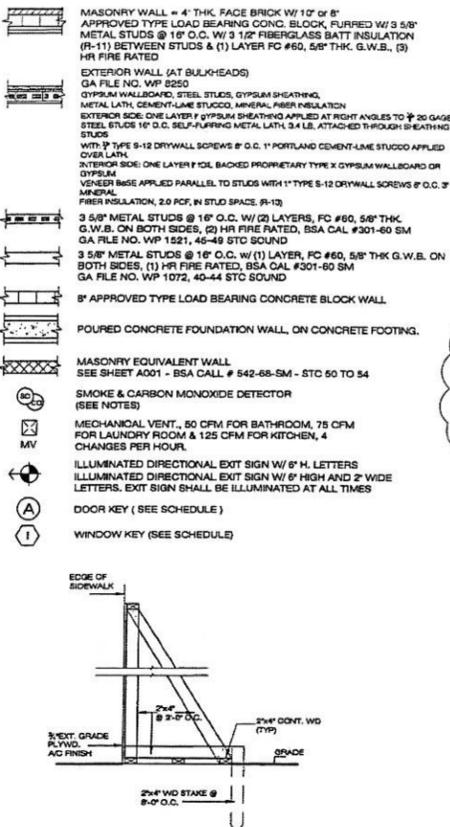
82 THROOP AVENUE  
BROOKLYN, NY 11206

**FIGURE 9**      **SSDS LAYOUT**

**APPENDIX C**  
***Final Architectural Plans***

# PROPOSED NEW BUILDING (9 D.U.)

## LEGEND



## ZONING ANALYSIS

**PROPERTY DATA:**  
 ADDRESS: 78, 80 & 82 THROOP AVENUE, BROOKLYN, N.Y.  
 BLOCK # 2266  
 LOT # 32, 33 & 34  
 CB # 301  
 BIN # 1834225  
 ZONING MAP # 12b  
 FIRE DISTRICT: YES  
 STRUCTURAL OCCUPANCY CATEGORY: II (TABLE 1604.5)  
 ZONING LOT AREA: 75'-0" x 100'-0" = 7,500 SF  
 ZONING DISTRICT: C2-4 / R7A (INCLUSIVE HOUSING AREA - APPENDIX F, para 4)

**ZR 43-00 PERMITTED USE GROUPS:**  
 2 RESIDENTIAL, 4 COMMUNITY FACILITY, COMMERCIAL

**SCOPE OF WORK:**  
 PROPOSED NEW 4-STORY & CELLAR MASONRY BUILDING.  
 PROPOSED RESIDENTIAL UG-2, UG-2 ON THE CELLAR THRU FOURTH FLOOR.  
 CONSTRUCTION CLASSIFICATION II.

**ZONING ANALYSIS:**  
 ARTICLE 3, CHAPTER 4, RESIDENTIAL BUILDINGS IN COMMERCIAL DISTRICT  
 ZR 34-11 - ARTICLE II CHAPTER 4 APPLIES, EXCEPT ZR 34-21 THRU ZR 34-24  
 PROPOSED AS RESIDENTIAL PERMITTED FLOOR AREA RATIO (INCLUSIVE HOUSING)  
 ZR 34-22 - (ZR 23-144) & (ZR 23-952) F.A.R. = 3.45; MAX FLOOR AREA = 7,500 X 3.45 = 25,875 SF

**PROPOSED RESIDENTIAL FLOOR AREA:**  
 CELLAR FLOOR = (75'-0" x 65'-0") (15'-0" x 25'-6") = 5,257.5 S.F.  
 FIRST FLOOR = (75'-0" x 65'-0") (15'-0" x 25'-6") = 5,257.5 S.F.  
 SECOND FLOOR = (75'-0" x 65'-0") (15'-0" x 25'-6") = 5,257.5 S.F.  
 THIRD FLOOR = (75'-0" x 65'-0") (15'-0" x 25'-6") = 5,257.5 S.F.  
 FOURTH FLOOR = (75'-0" x 65'-0") (15'-0" x 25'-6") = 5,257.5 S.F.  
 PENTHOUSE = (12'-4" x 19'-2") (14'-3" x 11'-3") = 257.5 S.F.  
 TOTAL FLOOR AREA = 26,884.5 SF + 28,875 S.F. OK

**PERMITTED MAXIMUM LOT COVERAGE:**  
 ZR 34-22 - (ZR 23-145) PERMITTED = 80%, CORNER LOT  
 THEREFORE = 1,800 + 7,500 = 9,300 S.F.  
 PROPOSED LOT COVERAGE = 5,257.5 S.F. = 6,000 S.F. OK

**DENSITY:**  
 (ZR 23-23) MAX F.A. / A.C., THEREFORE 17,047 / 480 = 25 D.U.  
 PROPOSED D.U. = 9 + 25 OK

**FRONT YARD:**  
 (ZR 34-231) NO FRONT YARD REQUIRED  
 PROPOSED FRONT YARD = 4'-0" OK

**SIDE YARDS:**  
 (ZR 34-232) SIDE YARDS = 0'-0", 0'-0", 0'-0" MIN. IF ANY  
 PROPOSED SIDE YARDS = 0'-0" & 16'-0" OK

**REAR YARD:**  
 (ZR 23-541) WITHIN 100'-0" FROM CORNER NO REAR YARD REQUIRED

**PERMITTED HEIGHT AND SETBACK:**  
 ZR 34-24 - (ZR 23-633)(d)  
 MIN. BASE HEIGHT = 60'-0"  
 MAX. BASE HEIGHT = 65'-0"  
 MAX. BLDG HEIGHT = 80'-0"  
 SETBACK BEYOND BASE HEIGHT = 15'-0"

**PROPOSED BASE HEIGHT = 42'-6"**  
**PROPOSED BASE HEIGHT = 42'-6"**  
**PROPOSED BLDG HEIGHT = 42'-6" OR 51'-6" W/BULKHEAD**  
**PROPOSED SETBACK = N/R**

**REQUIRED PARKING:**  
 (ZR 23-23) RESIDENTIAL, R7A, REQUIRED PARKING = 50% OF PROPOSED D.U.  
 PROPOSED D.U. = 0.5 x 9 = 4.5 SPACES REQUIRED  
 (ZR 23-241) WAIVER FOR DEVELOPMENTS OR DEVELOPMENTS  
 ZONING DISTRICT R7A, MIN. # OF PARKING SPACES WAIVED = 5 SPACES  
 REQUIRED = 5 + 5, THEREFORE RESIDENTIAL PARKING IS WAIVED  
 NO PARKING PROPOSED

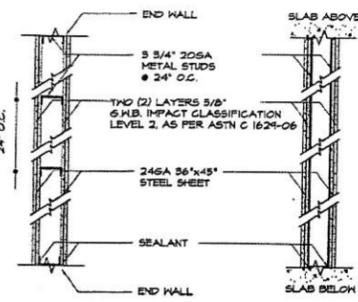
**BICYCLE PARKING:**  
 (ZR 23-311) FOR ENCLOSED BICYCLE PARKING SPACE:  
 1/2 2 RESIDENTIAL, 1/2 2 D.U. PROPOSED UNITS = 9 / 2 = 4.5 = 5 SPACES REQUIRED  
 BUT WHEN BUILDINGS CONTAINING LESS THAN 30 D.U.  
 BICYCLE PARKING IS WAIVED

**SPECIAL INSPECTIONS**

- STRUCTURAL STEEL - WELDING
- STRUCTURAL STEEL - ERECTION & BOLTING
- STRUCTURAL COLD-FORMED STEEL
- CONCRETE - CAST-IN-PLACE
- MASONRY
- SOILS - SITE PREPARATION
- SOILS - INVESTIGATIONS (BORINGS/TEST PITS)
- UNDERPINNING
- MECHANICAL SYSTEMS
- EXCAVATION - SHEETING, SHORING, AND BRACING
- SITE STORM DRAINAGE DISPOSAL AND DETENTION SYSTEM INSTALLATION
- FIREPROOF, PARTIAL, AND FIREBLOCK SYSTEMS
- SEISMIC ISOLATION SYSTEMS
- CONCRETE TEST CYLINDERS
- CONCRETE DESIGN MIX

**PROGRESS INSPECTION ITEMS:**

- FOOTING AND FOUNDATION
- ENERGY CODE COMPLIANCE INSPECTIONS



(1) PRESCRIPTIVE STUD AND WALL BOARD ASSEMBLY. A COMPLIANT WALL ASSEMBLY SHALL BE SUBSTANTIALLY IDENTICAL TO AND SHALL PROVIDE AN IMPACT RESISTANCE EQUIVALENT TO OR EXCEEDING THE PERFORMANCE OF ONE (1) OF THE FOLLOWING:

(2) MATERIALS, IMPACT RESISTANT WALL BOARD SHEATHED ON THE INTERIOR SURFACE OF THE EXIT ENCLOSURE WALL ASSEMBLY SHALL BE TESTED BY AN APPROVED TESTING AGENCY. THE WALL BOARD USED AS THE INTERIOR FACE PANEL SHALL BE LISTED BY AN APPROVED AGENCY TO ASTM C 1028-06, STANDARD CLASSIFICATION FOR ABUSE-RESISTANT NONDECORATED INTERIOR GYPSUM PANEL, PRODUCTS AND FIBER-REINFORCED CEMENT PANELS, IMPACT CLASSIFICATION LEVEL 2, AND THE BASE LAYER PANEL SHALL BE A MINIMUM .58 INCH (18 MM) GYPSUM WALL BOARD.

WALL BOARD APPLIED TO THE INTERIOR SURFACE OF THE EXIT ENCLOSURE WALL SHALL NOT REDUCE THE CLEAR WIDTH OF THE EXIT STAIRS BELOW THAT REQUIRED FOR MEANS OF EGRESS BY CHAPTER 10 OF THE BUILDING CODE.

(3) ASSEMBLY THE WALL ASSEMBLY SHALL BE AT MIN TWO-HOUR FIRE RESISTANCE RATED.

(4) INSTALLATION SHALL COMPLY WITH THE FOLLOWING:

(A) STUDS SHALL BE MINIMUM 3-1/2 INCH (89 MM) DIE-COLD-FORMED STEEL FRAMING, AT LEAST 33 MILS THICK (20 GAUGE). VERTICAL STUDS SHALL BE SPACED AT A MAX. DISTANCE OF 24 IN. (610 MM), ON CENTER.

(B) RUNNERS SHALL BE SECURELY ATTACHED AT THE FLOOR AND CEILING TO STRUCTURAL ELEMENT MEMBERS AND SHALL COMPLY WITH THE STRUCTURAL REQUIREMENTS OF THE BUILDING CODE.

(C) WALL BOARDS SHALL BE ATTACHED WITH NO. 8 SELF-DRILLING BUGLE-HEAD SCREWS, 12 INCHES (305 MM), ON CENTER MAXIMUM, WITH A MINIMUM DEPTH OF 5/8 INCH (16 MM) PENETRATION INTO THE WALL CAVITY.

(E) JOINTS BETWEEN ADJOINING SHEETS OF WALL BOARD SHALL BE STAGGERED FROM BASE LAYER WITH FACE PANEL LAYER.

**NOTE:**  
 AUTOMATIC FIRE ALARM SYSTEM WITHOUT ALARM NOTIFICATION APPLIANCES SHALL BE PROVIDED THROUGHOUT THE BUILDING. FIRE ALARM SYSTEM FILED SEPARATELY.

**ZR 23-03, ZR26-41 & ZR 28-12 - TREE PLANTING**  
 STREET FRONTAGE = 49'-6 1/4" / 25 = 2 TREES.  
 TWO (2) TREES REQUIRED, TWO (2) TREES PROPOSED. EXACT LOCATION TO BE DETERMINED BY THE DEPARTMENT OF PARKS & RECREATION. PLANT SAWTOOTH OAK OR SHINGLE OAK. PROVIDE TREE PIT 5'-0" x 10'-0" AS PER NYC PARKS DEPARTMENT.

**PROBE NOTE: OWNER TO HIRE PROFESSIONAL ENGINEER TO FILE STRUCTURAL DRAWINGS**

**ABBREVIATIONS**

AT	BOARD	LIN	LINEN
CB	CONCRETE BLOCK	MTL	METAL
CL	CLOSET	RD	ROOF DRAIN
CONC.	CONCRETE	RM	ROOM
DN	DOWN	S	SINK
D.U.	DWELLING UNIT	S.F.	SQUARE FEET
DWG.	DRAWING	SHT.	SHEET
F.P.S.C.	FIRE PROOF SELF CLOSING W/ WITH	STL	STEEL
FT.	FOOT (FEET)	TYP.	TYPICAL
GYP.	GYPSUM	W.C.	WATER CLOSET
LAV.	LAVATORY	WD	WOOD
GH	GREEN HOUSE	W.D.	WASHER / DRYER
		W.M.	WASHING MACHINE

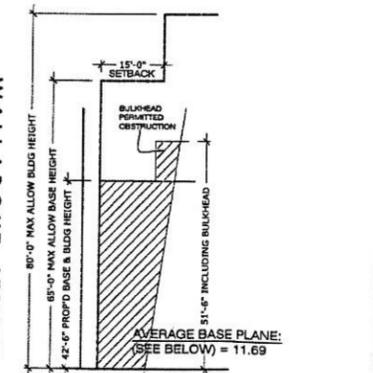
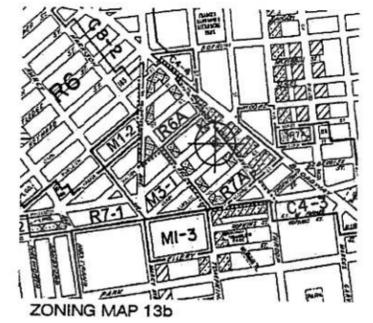
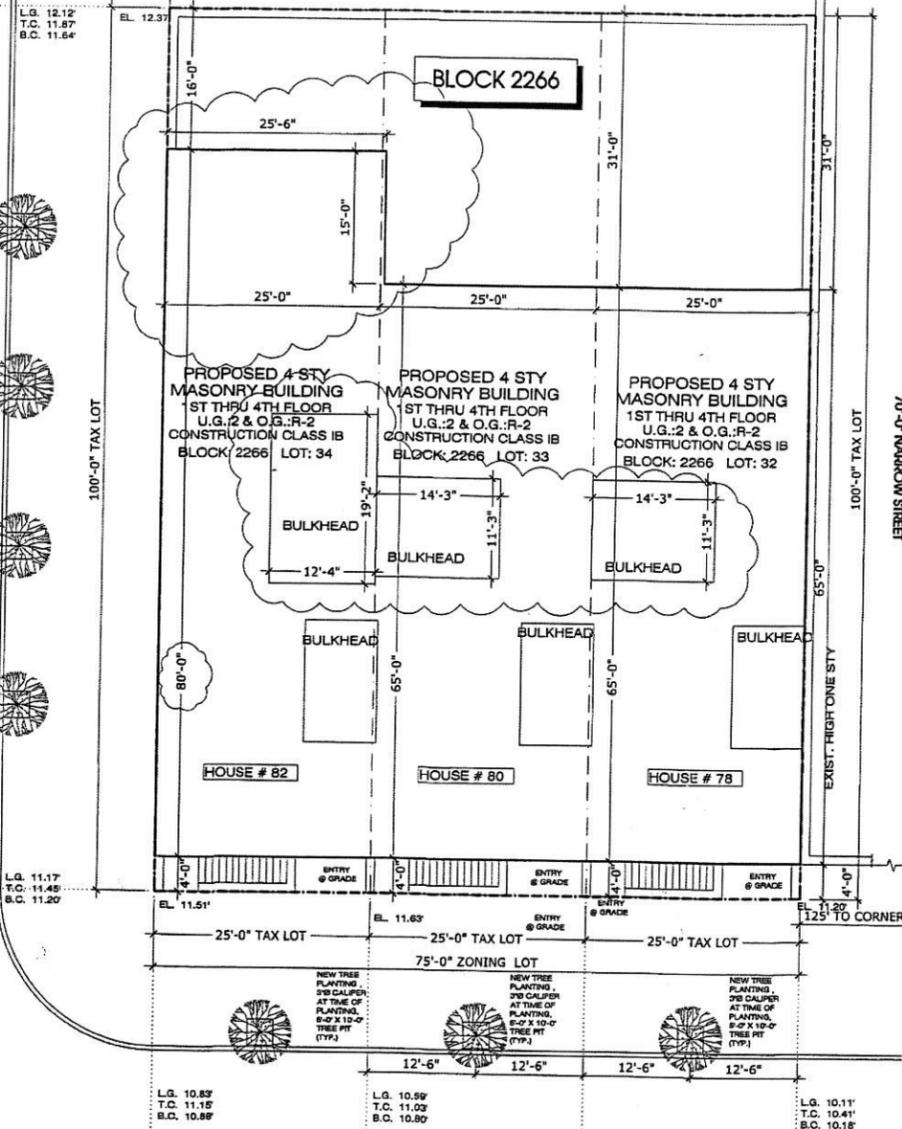
**SEPARATE APPLICATIONS**

- SPRINKLERS
- BUILDERS PAVEMENT PLAN
- MECHANICAL
- STRUCTURES
- FIRE ALARM

**DRAWING LIST**

- 001.00 SITE PLAN & ZONING ANALYSIS
- 002.00 CELLAR FLOOR PLANS
- 003.00 FIRST FLOOR PLANS
- 004.00 SECOND FLOOR PLANS
- 005.00 THIRD FLOOR PLANS
- 006.00 FOURTH FLOOR PLANS
- 007.00 ROOF PLANS
- 008.00 SECTIONS
- 009.00 ELEVATIONS
- 010.00 RISERS & SCHEDULES
- 011.00 ENERGY COMPLIANCE REPORT
- 012.00 ENERGY COMPLIANCE REPORT

**ZR 23-03, ZR26-41 & ZR 28-12 - TREE PLANTING**  
 STREET FRONTAGE = 25'-0" / 25 = 1 TREE.  
 ONE (1) TREE REQUIRED, ONE (1) TREE EXISTING ON SITE AND ONE (1) TREE PROPOSED. EXACT LOCATION TO BE DETERMINED BY THE DEPARTMENT OF PARKS & RECREATION. PLANT SAWTOOTH OAK OR SHINGLE OAK. PROVIDE TREE PIT 5'-0" x 10'-0" AS PER NYC PARKS DEPARTMENT.



**HEIGHT & SETBACK (ZR 23-633)(d)**

**PANOS VIKATOS, R.A.**  
 249-33 BEECH KNOLL AVE  
 LITTLE NECK HILLS, NY 11362  
 (917) 412-7187 #PANOS@GMAIL.COM

THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, MATERIALS, TECHNIQUES, OR FOR SAFETY PREDICATIONS AND PROVISIONS IN CONNECTION WITH THE WORK, FROM THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CRONTACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO OBEY OR COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, WRITTEN INSTRUCTIONS ON THE DRAWING SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE SHALL NOT BE RESPONSIBLE FOR ANY DIMENSIONS FROM THE DRAWINGS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

**PROJECT TITLE**  
 NEW BUILDING  
 THROOP AVE  
 BROOKLYN, NY

**DRAWING TITLE**  
 SITE PLAN  
 ZONING  
 NOTES

SCALE: AS NOTED

**RELEASE STATUS OF DRAWING** ISSUED:

SCHEMATIC DESIGN

DESIGN DEVELOPMENT

PROGRESS PRINT

PARTIAL RELEASE as built 2/15/15

FULL RELEASE

REVISION

SEAL & SIGNATURE

DATE 1/27/12

PROJECT NO 003-12

DRAWING BY

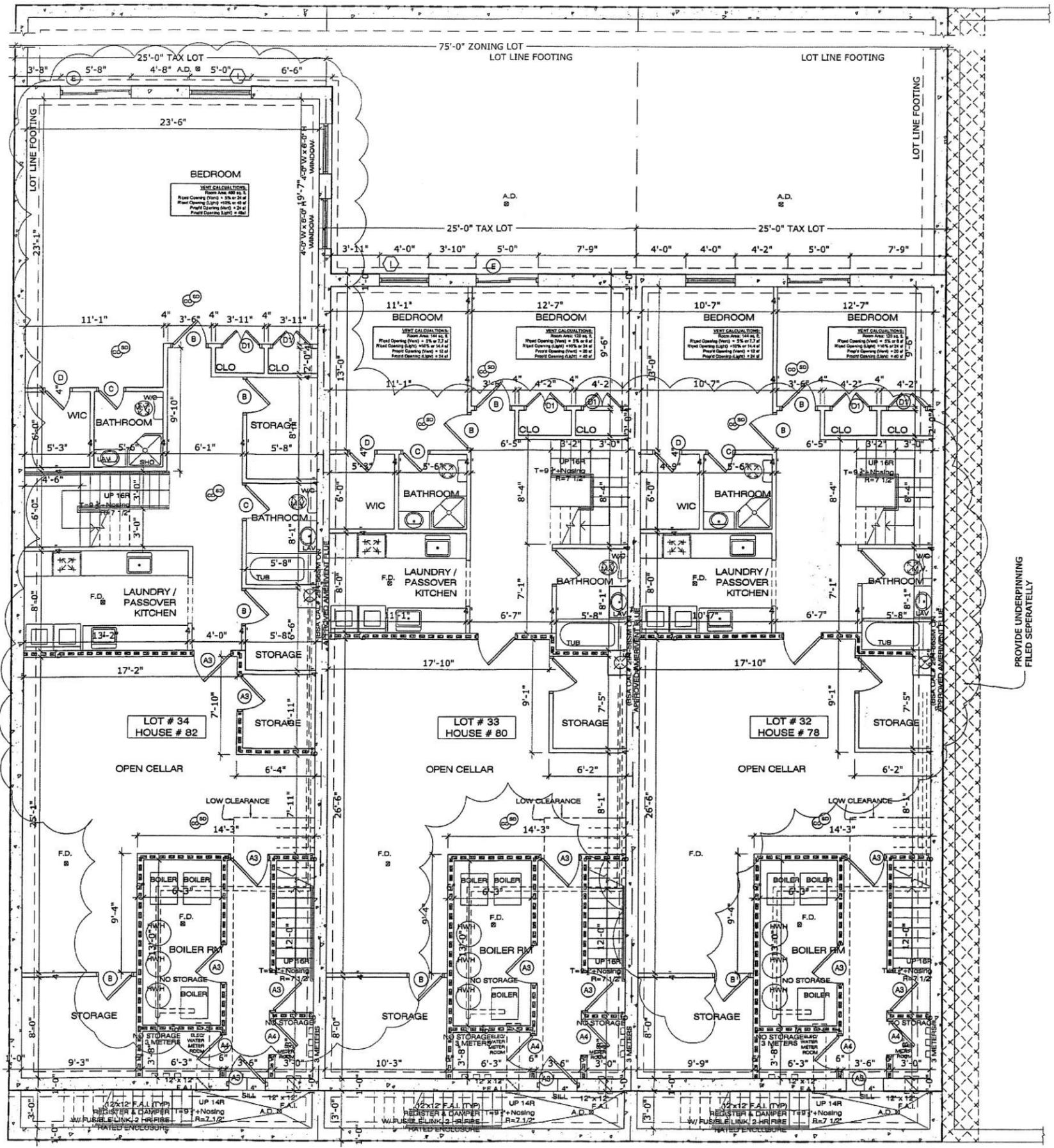
CHECKED BY

DWG No 1 OF 11

001.01

**TABLE 601**  
 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (hours)

BUILDING ELEMENT	TYPE I		TYPE II		TYPE III		TYPE IV		TYPE V	
	A	B	A <sup>d</sup>	B	A <sup>d</sup>	B	HT	A <sup>d</sup>	B	
Structural frame <sup>a</sup> Including columns, girders, trusses	3 <sup>b</sup>	2 <sup>b</sup>	1	0	1	0	HT	1	0	
Bearing walls Exterior <sup>d</sup> Interior	3	2	1	0	2	2	2	1	0	
Nonbearing walls and partitions Exterior					See Table 602					
Nonbearing walls and partitions Interior <sup>d</sup>	0	0	0	0	0	0	See Section 602.4.6	0	0	
Floor construction <sup>h</sup> Including supporting beams and joists	2	2	1	0	1	0	HT	1	0	
Roof construction Including supporting beams and joists	1 1/2 <sup>c</sup>	1 <sup>c</sup>	1 <sup>c</sup>	0 <sup>c</sup>	1 <sup>c</sup>	0	HT	1 <sup>c</sup>	0	



- BOILER ROOM NOTES**
1. ANY CHANGE OF HEATING APPARATUS TO BE FILED PRIOR TO INSTALLATION.
  2. GAS VENT TO BE AMERIVENT FUE GAS CAL# 294-5634.
  3. PROVIDE MASONRY FOUNDATION UNDER AMERIVENT FUE.
  4. PROVIDE MINIMUM 18" CLEARANCE BETWEEN BOILERS & ENCLOSING WALL OR PARTITIONS. PROVIDE 3'-0" CLEARANCE IN FRONT OF BOILER/ FURNACE FOR MAINTENANCE.
  5. PROVIDE 4" CONCRETE SLAB, ELECTRIC LIGHT & FLOOR DRAIN IN BOILER ROOM.
  6. PROVIDE TWO (2) LAYERS 5/8" SHEETROCK, TYPE 'X' ON THE CEILING.
  7. REFER TO LEGEND FOR BOILER ROOM ENCLOSURE PARTITIONS.
  8. NO METERS, DUMBBATTERY SHAFTS, ELEVATOR SHAFTS, INTERIOR STAIR OR REQUIRED OUTSIDE CELLAR ENTRANCE TO BE LOCATED WITHIN BOILER ROOM.
  9. BOILER ROOM DOOR TO BE ONE (1-1/2) HOUR TEST FIREPROOF SELF-CLOSING BOARD OF STANDARDS & APPEALS APPROVED TYPE.
  10. NO STORAGE PERMITTED WITHIN BOILER ROOM. 11. PROVIDE 12"x12" FIXED REGISTER WITH B.S.A. APPROVED TYPE FIRE DAMPER WITH FUSIBLE LINK 12. INSTALLATION OF EQUIPMENT SHALL COMPLY WITH B.S.A./ M.E.A. APPROVAL. BUILDING CODE REQUIREMENTS, DEPARTMENT OF BUILDINGS RULES & REGULATION, AND MANUFACTURER'S SPECIFICATIONS (LATEST EDITION).

**CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION**  
 OCCUPANCY CLASSIFICATION  
 RESIDENTIAL R-2

**TABLE 503 - 2008 NYC CONSTRUCTION CODE**  
 ALLOWABLE HEIGHT & BUILDING AREA  
 GROUP R-2 & TYPE OF CONSTRUCTION IIIA  
 -> 8 STORIES AND U.L. S.F.

**BC 1009.1 - 2008 NYC CONSTRUCTION CODE**  
 STAIRWELL WIDTH, NOT LESS THAN 44" BUT EXCEPTIONS:  
 1. NOT LESS THAN 36"  
 2. WHEN R-2 OCCUPANCY & LESS THAN 125' HEIGHT AND LESS THAN 30 OCCUPANTS PER FLOOR.

**HOT WATER HEATER**  
 MANUF: AO SMITH : PG230246  
 MEA # 182-78-E VOLII  
 CAPACITY = 75,000 BTUS

**BOILER**  
 MANUF: BURNHAM, MODEL : ALP080  
 MEA # 77-07-E  
 CAPACITY = 80,000 BTUS  
 MIN. EFFICIENCY REQUIREMENT AS PER 503.2.3(5)  
 BOILER < 300,000 BTU, GAS FIRED -> MIN EFFICIENCY = 80% AFUE  
 PROPOSED UNIT EFFICIENCY = 95% AFUE

**THERMOSTATIC CONTROLS (TYPICAL TO ALL FLOORS)**  
 THE SUPPLY OF HEATING AND/OR COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE

**CELLAR FLOOR PLAN**

SCALE 1/4"=1'-0"

ENTIRE BUILDING TO BE FULLY SPRINKLERED

**QUALITY HOUSING PROGRAM**  
 I ZR 28-10 NEIGHBORHOOD IMPACT

ZR 28-11 BULK REGULATIONS  
 SEE ART II, CHAPTER 3 & 4 BULK REGULATIONS

ZR 28-12  
 REVISED TO ZR 23-03, ZR26-41 & ZR 28-12 - TREE PLANTING

II ZR 28-20 BUILDING INTERIOR

ZR 28-21  
 ALL DWELLING UNITS SHALL HAVE A MINIMUM 400 S.F. AREA  
 PROPOSED MIN. SIZE OF D.U. = 1,150 S.F.

ZR 28-22  
 REQD: ALL WINDOWS IN THE RESIDENTIAL PORTION OF THE DEVELOPMENT SHALL BE DOUBLE GLAZED  
 PROPD: ALL PROPOSED RESIDENTIAL WINDOWS TO BE DOUBLE GLAZED

ZR 28-23  
 DEVELOPMENT WITH 9 OR MORE D.U. PER VERTICAL CIRCULATION CORE TO PROVIDE REFUSE STORAGE DISPOSAL  
 PROPOSED # OF D.U. PER VERTICAL CIRCULATION CORE = 3 < 9, NONE REQD

ZR 28-24  
 REQUIRED: 1 W/M PER 20 D.U.  
 1 DRYER PER 20 D.U.  
 PROPOSED # OF D.U. = 6, ALL UNITS HAVE W/M & DRYER WITHIN

ZR 28-25  
 DAYLIGHT IN CORRIDORS  
 50% OF F.A. TO BE DEDUCTED IF WINDOW WITH NON TINTED GLAZED AREA OF MIN. 20 S.F. IS PROVIDED  
 WINDOW TO BE VISIBLE FROM 50% OF CORRIDOR LOCATED AT LEAST 20'-0" FROM A WALL OR A SIDE OR REAR LOT LINE MEASURED IN A HORIZONTAL PLANE AND PERPENDICULAR TO THE ROUGH OPENING OF THE WINDOW PROVIDED BUT NO DEDUCTION TAKEN

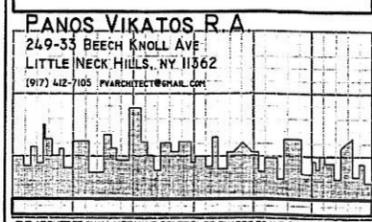
III ZR 28-30 RECREATION SPACE PLANTING AREAS

ZR 28-31  
 REQUIRED RECREATION SPACE WITH 9 OR MORE D.U.  
 RB 3.3 % OF F.A. TO BE PROVIDED AS RECREATION AREA  
 PROPOSED # OF D.U. = 6, NONE REQUIRED

ZR 28-33 PLANTING AREAS  
 THE AREA OF ZONING LOT BETWEEN THE STREETLINE AND THE STREETWALL OF THE BUILDING SHALL BE PLANTED EXCEPT AT THE ENTRANCES AND EXITS OF THE BUILDING  
 PLANTER PROPOSED, REFER TO FIRST FLOOR PLAN

IV ZR 28-40 (SAFETY & SECURITY)

ZR 28-41  
 DENSITY PER CORRIDOR  
 RB: IF THE NUMBER OF D.U. SERVED BY A VERTICAL CIRCULATION CORE ON EACH STORY DOES NOT EXCEED 11, 50% OF SUCH CORRIDOR SERVING SUCH DWELLING UNITS COULD BE DEDUCTED FROM FLOOR AREA. 50% OF AREA OF PROPOSED CORRIDORS DEDUCTED FROM FLOOR AREA  
 NO DEDUCTION TAKEN



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**PROJECT TITLE**  
 NEW BUILDING  
 THROOP AVENUE  
 BROOKLYN, NY

**DRAWING TITLE**  
 CELLAR FLOOR PLANS

SCALE : AS NOTED

**RELEASE STATUS OF DRAWING**

SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 PROGRESS PRINT  
 PARTIAL RELEASE as built 2/15/15  
 FULL RELEASE  
 REVISION

**SEAL & SIGNATURE**

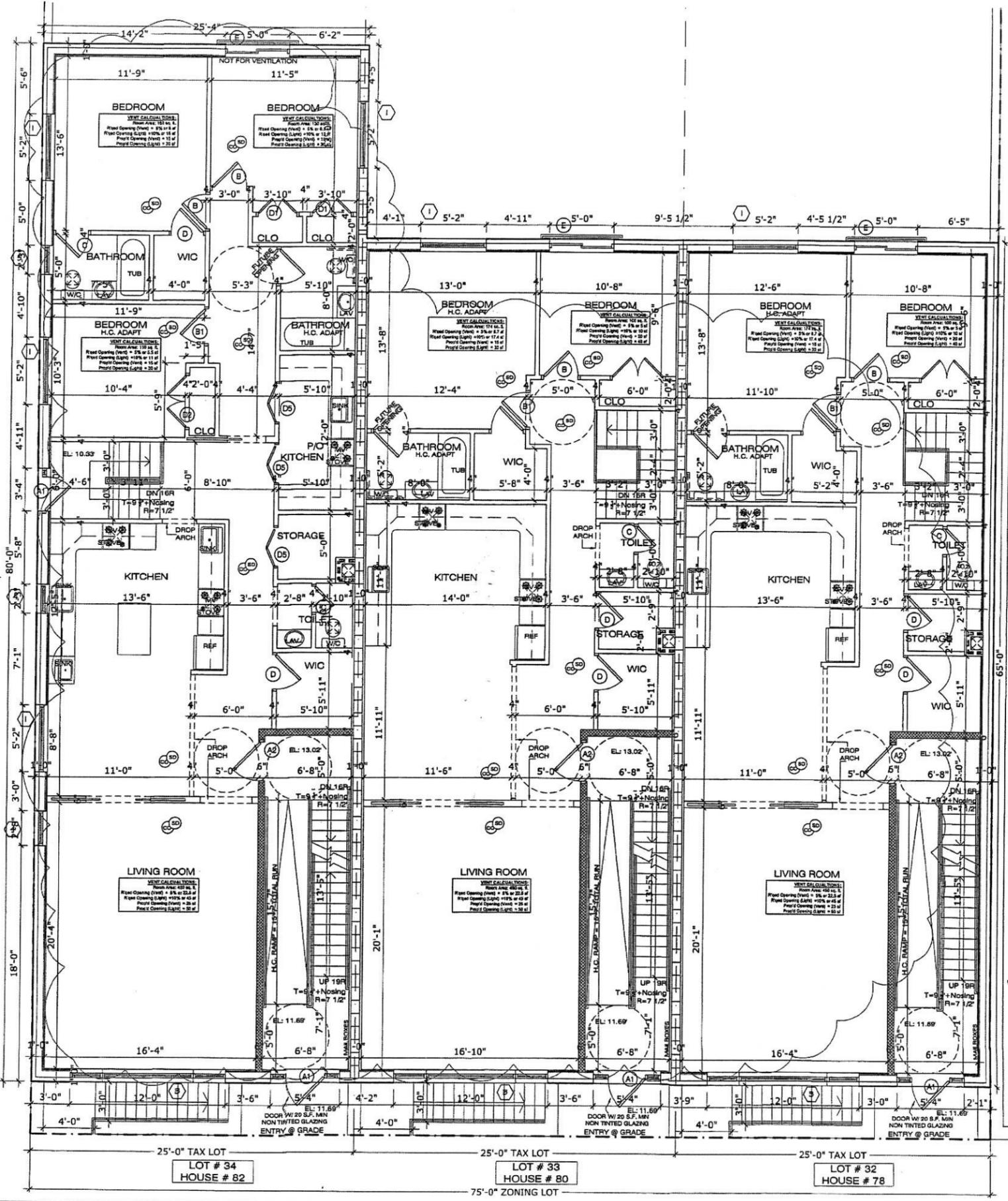
REGISTERED ARCHITECT  
 STATE OF NEW YORK

DATE 1/27/12  
 PROJECT No 003-12  
 DRAWING BY  
 CHECKED BY  
 DWG No 2 OF 11

A-01  
 001.00

EXAMINED FOR ZONING LEGALITY AND FIRE PREVENTION ONLY AS PER D.B.S. 015  
 JAN 15 2014  
 HSI CHEN, P.E.

T.C.L.  
 1/27/12



**STAIR NOTES (ALL STAIRS COMPLY WITH BC 1009)**

1. MIN. TREAD = 9 1/2", MAX. RISER = 7 3/4"
2. PROVIDE HANDRAILS AS FOLLOWS:
  - 1 5/8" PIPE RAILING @ WALLS
  - 2-1 5/8" PIPE RAILS BETWEEN NEWEL POST
3. THE MIN. HEADROOM IN ALL PARTS OF THE STAIR ENCLOSURE SHALL NOT BE LESS THAN 6'-8" MEASURED VERTICALLY FROM TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OR PLATFORM.
4. STAIR TO BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS

**BC 1018 - 2008 NYC CONSTRUCTION CODE**

NUMBER OF EXITS, MINIMUM # OF EXITS FOR SPACES WITH OCCUPANT LOAD OF 1-500 PERSONS -> 2 EXITS REQUIRED BUT AS PER TABLE 1018.2, OCCUPANCY R-2, NOT EXCEEDING 6 STORIES IN HEIGHT AND 2,000 S.F. PER FLOOR, ONE EXIT PER FLOOR IS PERMITTED

**CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION**

OCCUPANCY CLASSIFICATION  
RESIDENTIAL R-2

**TABLE 503 - 2008 NYC CONSTRUCTION CODE**

ALLOWABLE HEIGHT & BUILDING AREA  
GROUP R-2 & TYPE OF CONSTRUCTION IA  
-> 6 STORIES AND U.L. S.F.

**BC 1009.1 - 2008 NYC CONSTRUCTION CODE**

STAIRWELL WIDTH, NOT LESS THAN 44" BUT, EXCEPTIONS:

1. NOT LESS THAN 36"
2. WHEN R-2 OCCUPANCY % LESS THAN 12% HEIGHT AND LESS THAN 30 OCCUPANTS PER FLOOR

**THERMOSTATIC CONTROLS (TYPICAL TO ALL FLOORS)**

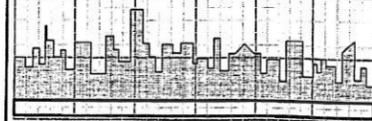
THE SUPPLY OF HEATING AND/OR COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE

ENTIRE BUILDING TO BE FULLY SPRINKLERED

**FIRST FLOOR PLAN**

SCALE: 1/4"=1'-0"

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**PROJECT TITLE**  
NEW BUILDING  
THROOP AVENUE  
BROOKLYN, NY

**DRAWING TITLE**  
FIRST FLOOR PLANS

**STICKER**

SCALE: AS NOTED

**RELEASE STATUS OF DRAWING**

SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 PROGRESS PRINT  
 PARTIAL RELEASE  
 FULL RELEASE  
 REVISION

ISSUED: \_\_\_\_\_  
as built 2/15/15

**SEAL & SIGNATURE**

DATE: 1/27/12  
PROJECT No 003-12  
DRAWING BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DWG No 3 OF 11

**REGISTERED ARCHITECT**  
STATE OF N.Y.

002.01

EXAMINED FOR ZONING, EGRESS AND FIRE PREVENTION ONLY AS PER C.D.R. 275  
JAN 15 2014  
TEN-HSI CHEN, P.E.

NOT VALID FOR CONSTRUCTION UNLESS SEAL AND SIGNED BY THE ARCHITECT AND APPROVED BY THE DEPARTMENT OF BUILDINGS

**THERMOSTATIC CONTROLS (TYPICAL TO ALL FLOORS)**  
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**STAIR NOTES: (ALL STAIRS COMPLY WITH BC 1009)**  
 1. MIN. TREAD = 9 1/2", MAX. RISER = 7 3/4"  
 2. PROVIDE HANDRAILS AS FOLLOWS:  
 - 1 5/8" PIPE RAILING @ WALLS  
 - 2-1 5/8" PIPE RAILS BETWEEN NEWEL POST  
 3. THE MIN. HEADROOM IN ALL PARTS OF THE STAIR ENCLOSURE SHALL NOT BE LESS THAN 6'-8" MEASURED VERTICALLY FROM TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OF PLATFORM.  
 4. STAIR TO BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS

**BC 1018 - 2008 NYC CONSTRUCTION CODE**  
 NUMBER OF EXITS, MINIMUM # OF EXITS FOR SPACES WITH OCCUPANT LOAD OF 1-500 PERSONS → 2 EXITS REQUIRED BUT AS PER TABLE 1018.2, OCCUPANCY R-2, NOT EXCEEDING 8 STORIES IN HEIGHT AND 2,000 S.F. PER FLOOR, ONE EXIT PER FLOOR IS PERMITTED

**ENTIRE BUILDING TO BE FULLY SPRINKLERED**

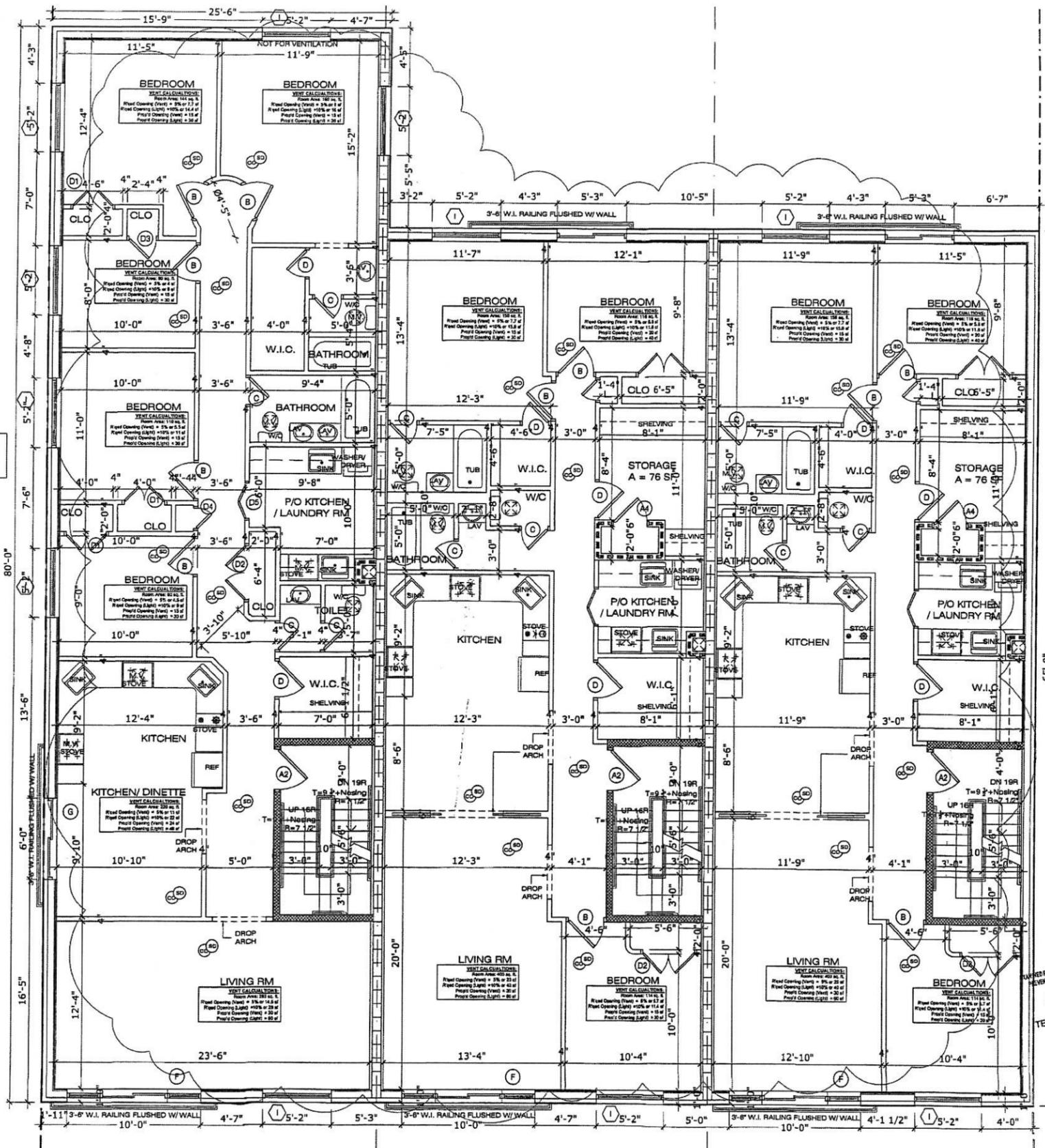
**CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION**  
 OCCUPANCY CLASSIFICATION  
 RESIDENTIAL R-2

**BC 1009.1 - 2008 NYC CONSTRUCTION CODE**  
 STAIRWELL WIDTH, NOT LESS THAN 44" BUT, EXCEPTIONS:  
 1. NOT LESS THAN 36"  
 2. WHEN R-2 OCCUPANCY & LESS THAN 125' HEIGHT AND LESS THAN 30 OCCUPANTS PER FLOOR

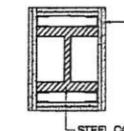
**TABLE 503 - 2008 NYC CONSTRUCTION CODE**  
 ALLOWABLE HEIGHT & BUILDING AREA  
 GROUP R-2 & TYPE OF CONSTRUCTION IIA  
 → 6 STORIES AND U.L. S.F.

**SECOND FLOOR PLAN**

SCALE: 1/4"=1'-0"



1 5/8" METAL STUDS w/ (2) LAYERS, FC #60,  
 5/8" THK G.W.B. ON BOTH SIDES, (2) HR FIRE  
 RATED, BSA CAL #301-60 SM



**COLUMN PROTECTION DETAIL**

SCALE: 1/4"=1'

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**PROJECT TITLE**  
 NEW BUILDING  
 THROOP AVENUE  
 BROOKLYN, NY

**DRAWING TITLE**  
 SECOND FLOOR PLANS  
 SCALE: AS NOTED

**RELEASE STATUS OF DRAWING** ISSUED:  
 SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 PROGRESS PRINT  
 PARTIAL RELEASE as built 2/15/15  
 FULL RELEASE  
 REVISION

**SEAL & SIGNATURE**  
 REGISTERED ARCHITECT  
 STATE OF NEW YORK  
 DATE: 1/27/12  
 PROJECT No 003-12  
 DRAWING BY  
 CHECKED BY  
 DWG No 4 OF 11  
 A-003.01

JAN 15 2014  
 TEN-HSI CHEN, P.E.

NOT VALID FOR CONSTRUCTION UNLESS ISSUED AND SEALED BY THE ARCHITECT AND APPROVED BY THE DEPARTMENT OF BUILDINGS

**STAIR NOTES: (ALL STAIRS COMPLY WITH BC 1009)**

1. MIN. TREAD = 9 1/2", MAX. RISER = 7 3/4"
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- 2-1 5/8"Ø PIPE RAILS BETWEEN NEWEL POST
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**CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION**  
OCCUPANCY CLASSIFICATION  
RESIDENTIAL R-2

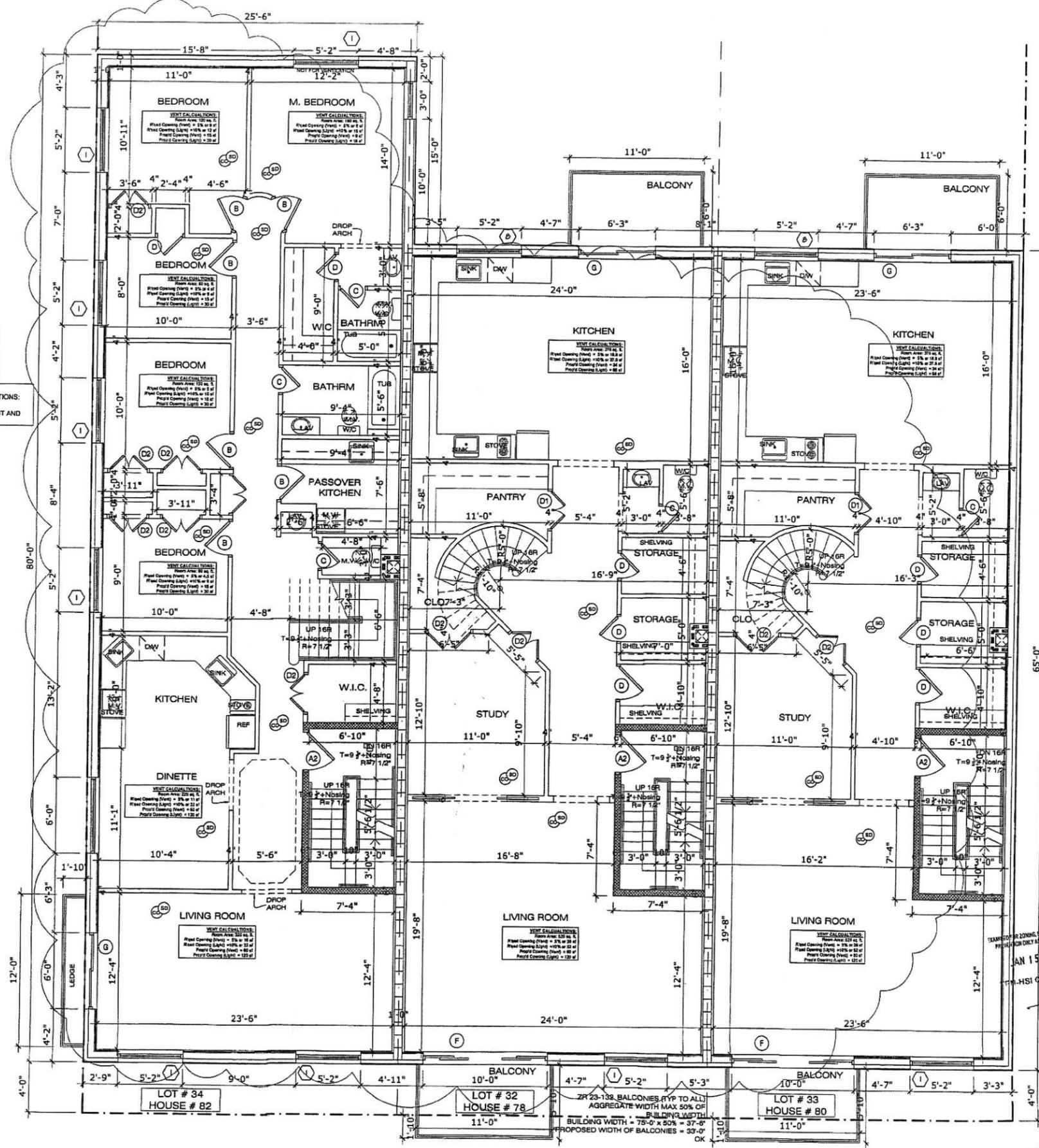
**BC 1008.1 - 2008 NYC CONSTRUCTION CODE**  
STAIRWELL WIDTH, NOT LESS THAN 4'-0", EXCEPTIONS:  
1. NOT LESS THAN 3'-0"  
1.2 WHEN R-2 OCCUPANCY % LESS THAN 12% HEIGHT AND LESS THAN 30 OCCUPANTS PER FLOOR

**TABLE 503 - 2008 NYC CONSTRUCTION CODE**  
ALLOWABLE HEIGHT & BUILDING AREA  
GROUP R-2 & TYPE OF CONSTRUCTION IIA  
→ 6 STORIES AND U.L. S.F.

ENTIRE BUILDING TO BE FULLY SPRINKLERED

**THIRD FLOOR PLAN**

SCALE: 1/4" = 1'-0"



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**PROJECT TITLE**  
NEW BUILDING  
THROOP AVENUE  
BROOKLYN, NY

**DRAWING TITLE** | STICKER  
THIRD FLOOR PLANS  
DEPT. BLDGS. 20761733 Job Number  
SCALE: AS NOTED

**RELEASE STATUS OF DRAWING** ISSUED:  
 SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 PROGRESS PRINT  
 PARTIAL RELEASE as built 2/15/15  
 FULL RELEASE  
 REVISION

**SEAL & SIGNATURE** DATE 1/27/12  
**REGISTERED ARCHITECT** PROJECT No 003-12  
 HSI CHEN, P.E. DRAWING BY  
 DWG No 5 OF 11  
 A-  
 004.01

JAN 15 2012  
HSI CHEN, P.E.

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ARCHITECT AND APPROVED BY THE DEPARTMENT OF BUILDINGS

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**BC 1018 - 2008 NYC CONSTRUCTION CODE**  
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**CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION**  
 OCCUPANCY CLASSIFICATION  
 RESIDENTIAL R-2

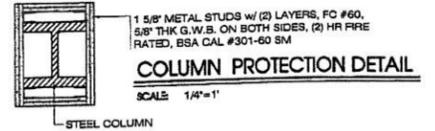
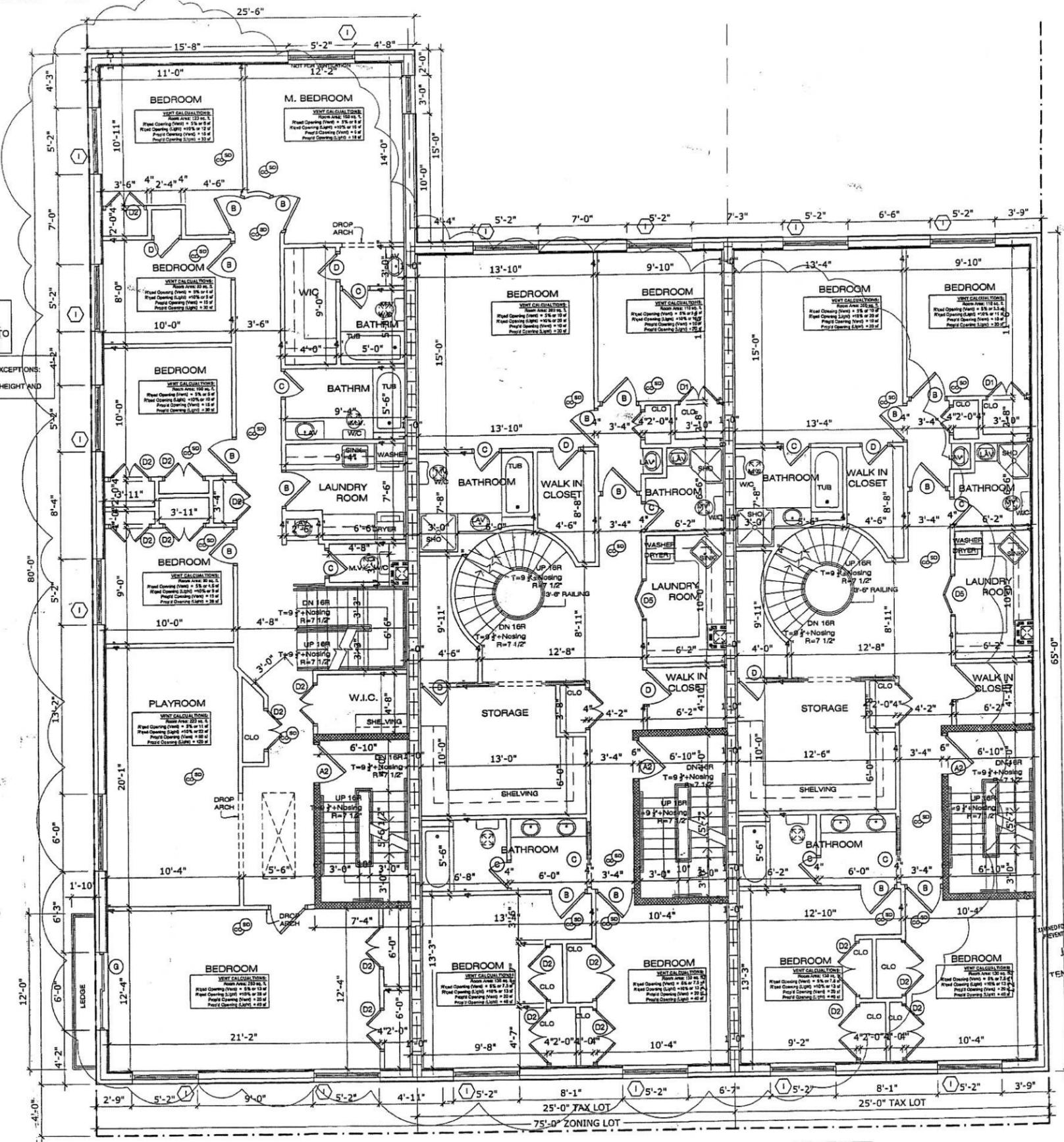
**BC 1009.1 - 2008 NYC CONSTRUCTION CODE**  
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 1.2 WHEN R-2 OCCUPANCY % LESS THAN 125' HEIGHT AND LESS THAN 30 OCCUPANTS PER FLOOR

**TABLE 503 - 2008 NYC CONSTRUCTION CODE**  
 ALLOWABLE HEIGHT & BUILDING AREA  
 GROUP R-2 & TYPE OF CONSTRUCTION IIA  
 -> 6 STORIES AND U.L.S.F.

ENTIRE BUILDING TO BE FULLY SPRINKLERED

**FOURTH FLOOR PLAN**

SCALE: 1/4"=1'-0"



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**PROJECT TITLE**  
 NEW BUILDING  
 THROOP AVE  
 BROOKLYN, NY

**DRAWING TITLE**  
 FOURTH FLOOR PLANS

SCALE: AS NOTED

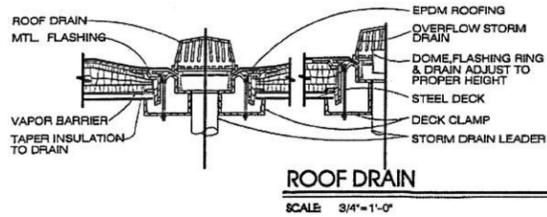
**RELEASE STATUS OF DRAWING** ISSUED:

SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 PROGRESS PRINT  
 PARTIAL RELEASE  
 FULL RELEASE  
 REVISION

as built 2/15/15

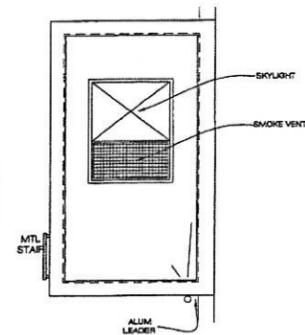
**SEAL & SIGNATURE** DATE 1/27/12  
 PROJECT No 003-12  
 DRAWING BY  
 CHECKED BY  
 DWG No 6 OF 11  
 A-005.01

REQUIRED FOR ZONING, EGRESS AND FIRE PREVENTION ONLY AS PER DR. 175  
 JAN 15 2014  
 TEN-HSI CHEN, P.E.



**CONTROLLED FLOW NOTES**

1. PROVIDE 3" BUILT-UP CONTROL-FLOW ROOF DRAIN; 2 ROOF DRAINS FOR 10,000 S.F. OR LESS OF ROOF AREA; 4 ROOF DRAINS FOR MORE THAN 10,000 S.F. OF ROOF AREA.
2. THE WATER DEPTH ON THE ROOF SHALL NOT EXCEED 3" IN DEPTH, DURING A 10 YEAR REQUENCY STORM.
3. FLASHING SHALL EXTEND AT LEAST 6" ABOVE THE ROOF LEVEL.
4. SCUPPERS SHALL BE PLACED IN THE PARAPET WALL 4" ABOVE THE ROOF LEVEL.
5. SEPERATE STORM & SANITARY DRAINAGE SYSTEMS WILL BE INSTALLED WITHIN THE BUILDING.

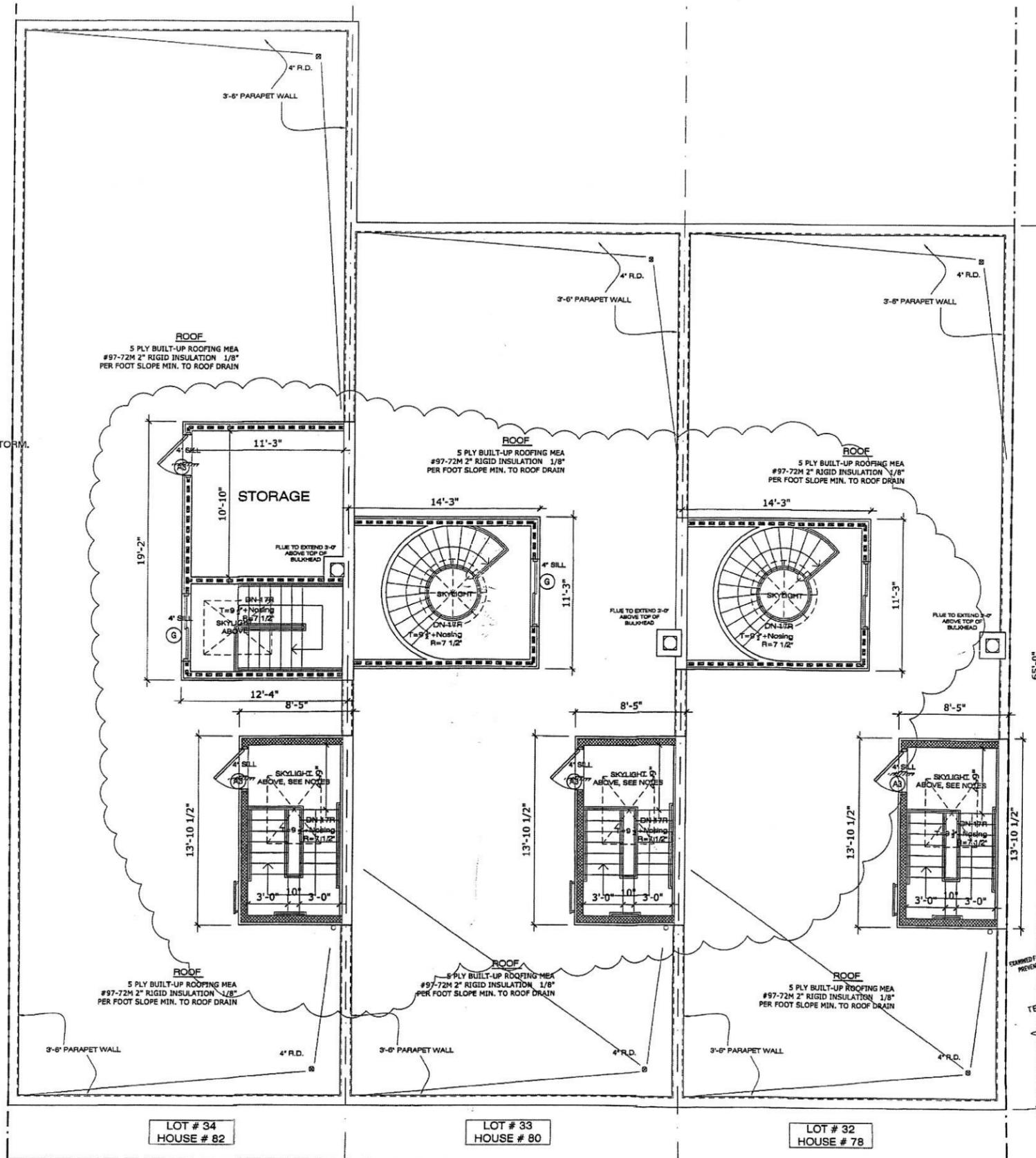


SMOKE VENT CALCULATIONS AS PER BC 910.5  
AREA OF SHAFT = 12'-9" x 6'-10" = 87.1 S.F.  
SMOKE VENT DIMENSION AS PER BC 910.5.2:  
87.1 x 0.035 = 3.1 S.F. OR 446.4 S.I.

PROPOSED 4'-0" x 5'-0" SKYLIGHT OF TOTAL AREA 20 S.F. OR 2,880 S.I.  
20 S.F. x 1/3 = 6.67 S.F. OR 960 S.I. > 72 S.I.  
THEREFORE 4'-0" x 2'-0" (8 S.F. OR 1,152 S.I.) FIXED LOUVER TO SERVE AS SMOKE VENT  
THE REMAINING PORTION OF 4'-0" x 3'-0" TO BE A SKYLIGHT GLAZED WITH PLAIN GLASS NOT MORE THAN 1/8 INCH THICK OR WITH PLASTIC GLAZING

**BULKHEAD PLAN & SMOKE VENT DETAILS**

SCALE: 1/4"=1'-0"



**ROOF PLAN**

SCALE: 1/4"=1'-0"

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**PROJECT TITLE**  
NEW BUILDING  
THROOP AVE  
BROOKLYN, NY

**DRAWING TITLE**  
ROOF PLANS

SCALE: AS NOTED

RELEASE STATUS OF DRAWING  
 SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 PROGRESS PRINT  
 PARTIAL RELEASE  
 FULL RELEASE  
 REVISION

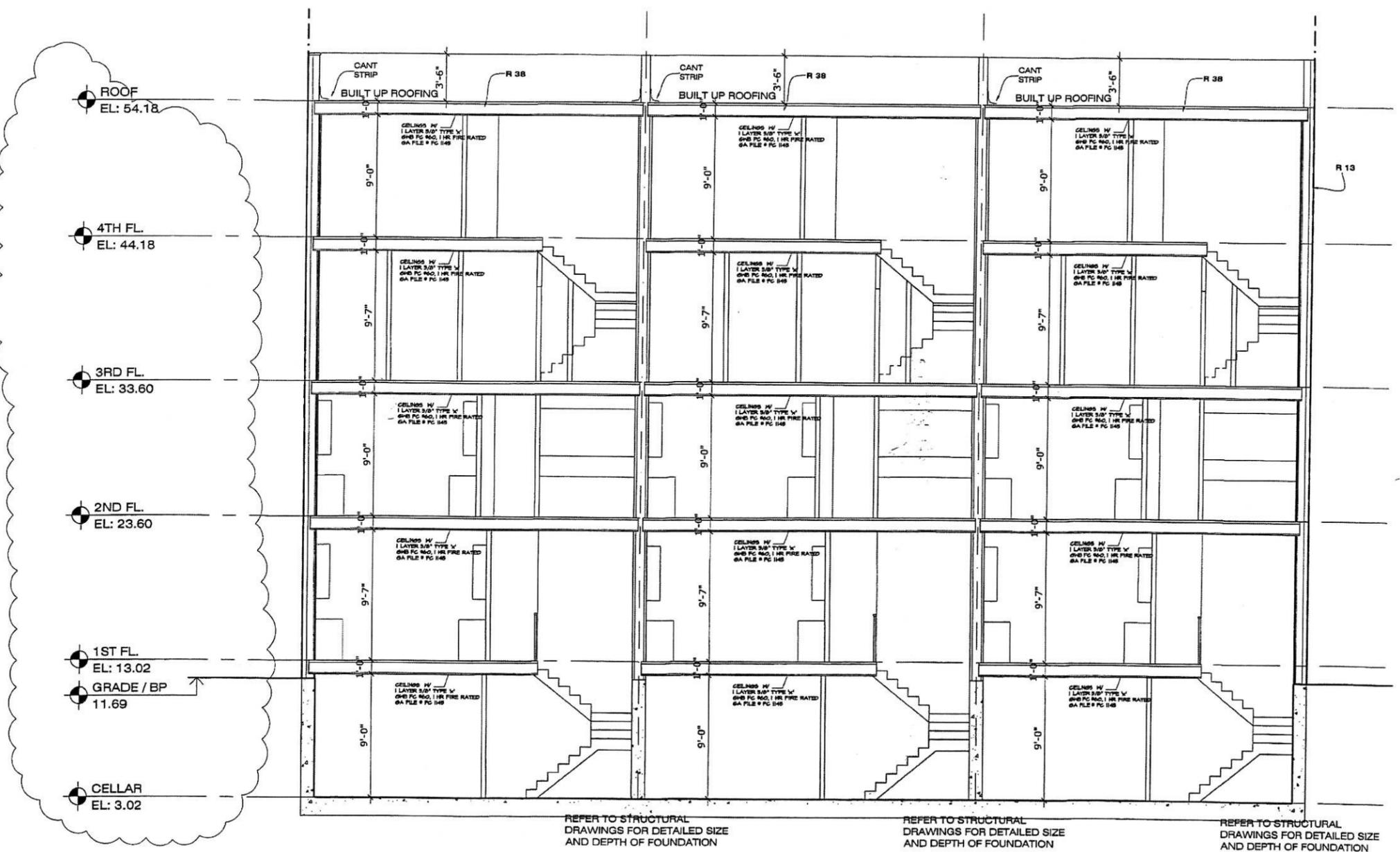
ISSUED: as built 2/15/15

SEAL & SIGNATURE

DATE: 1/27/12  
PROJECT No: 003-12  
DRAWING BY:  
CHECKED BY:  
DWG No: 7 OF 11  
A-  
006.01

EXAMINED FOR ZONING, EGRESS AND FIRE PREVENTION ONLY AS PER B.R. 215  
JAN 15 2014  
TEN-HSI CHEN, P.E.

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ARCHITECT AND APPROVED BY THE DEPARTMENT OF BUILDINGS



ROOF  
 EL: 54.18  
 4TH FL.  
 EL: 44.18  
 3RD FL.  
 EL: 33.60  
 2ND FL.  
 EL: 23.60  
 1ST FL.  
 EL: 13.02  
 GRADE / BP  
 EL: 11.69  
 CELLAR  
 EL: 3.02

REFER TO STRUCTURAL DRAWINGS FOR DETAILED SIZE AND DEPTH OF FOUNDATION  
 REFER TO STRUCTURAL DRAWINGS FOR DETAILED SIZE AND DEPTH OF FOUNDATION  
 REFER TO STRUCTURAL DRAWINGS FOR DETAILED SIZE AND DEPTH OF FOUNDATION

LOT # 34  
HOUSE # 82

LOT # 33  
HOUSE # 80

LOT # 32  
HOUSE # 78

**CROSS SECTION**

SCALE: 1/4"=1'-0"

**PANOS VIKATOS R.A.**  
 249-33 BEECH KNOLL AVE  
 LITTLE NECK HILLS, NY 11562  
 (917) 412-1105 / P.A.RCHITECT@GMAIL.COM

THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES, PROCEDURES, TECHNIQUES, CONNECTIONS OR PROGRAMS IN SUB-CONTRACTORS OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE SHALL NOT BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

PROJECT TITLE  
**NEW BUILDING**  
 THROOP AVENUE  
 BROOKLYN, NY

DRAWING TITLE  
**CROSS SECTIONS**

SCALE: AS NOTED

RELEASE STATUS OF DRAWING  
 SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 PROGRESS PRINT  
 PARTIAL RELEASE as built 2/15/15  
 FULL RELEASE  
 REVISION

ISSUED: \_\_\_\_\_  
 as built 2/15/15

SEAL & SIGNATURE  

 DATE: 1/27/12  
 PROJECT No 003-12  
 DRAWING BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 DWG No 8 OF 11  
**A-007.01**

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ARCHITECT AND APPROVED BY THE DEPARTMENT OF BUILDINGS

EXEMPT FOR ZONING, EGRESS AND FIRE PREVENTION ONLY AS PER DR. 375  
 JAN 15 2014  
 TEN-HSI CHEN, P.E.

T-LL

ARCHITECT





**THROOP AVENUE ELEVATION**

SCALE: 3/16"=1'-0"



**GERRY AVENUE ELEVATION**

SCALE: 3/16"=1'-0"



**REAR ELEVATION**

SCALE: 3/16"=1'-0"

**PANOS VIKATOS R.A.**  
 249-33 BEECH KNOLL AVE  
 LITTLE NECK HILLS, NY 11362  
 (917) 412-7105 PVARCHITECT@GMAIL.COM

THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

PROJECT TITLE  
**NEW BUILDING**  
 THROOP AVE  
 BROOKLYN, NY

DRAWING TITLE  
 ELEVATIONS

SCALE: AS NOTED

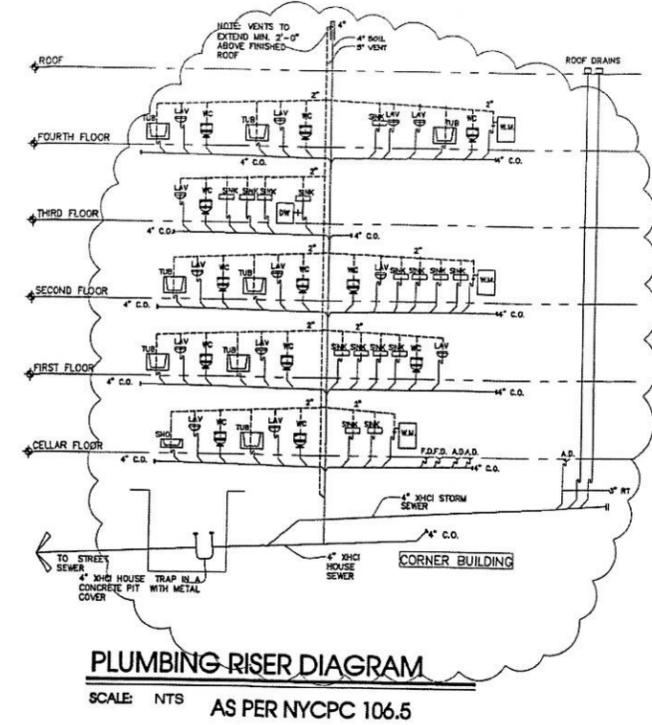
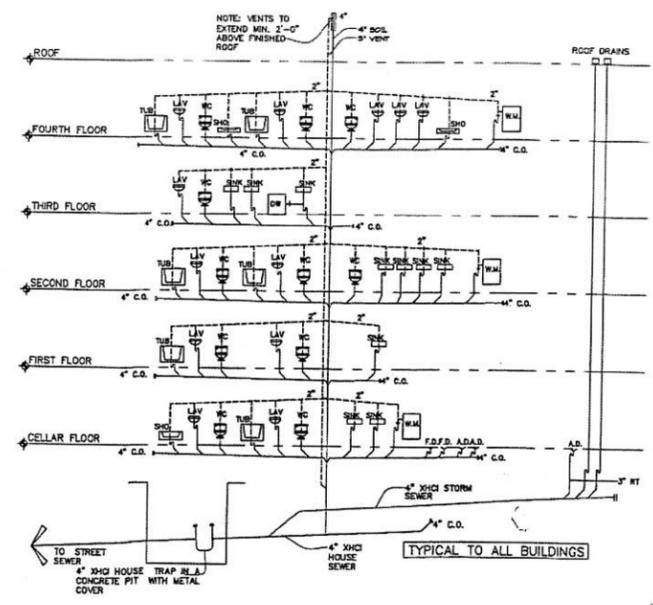
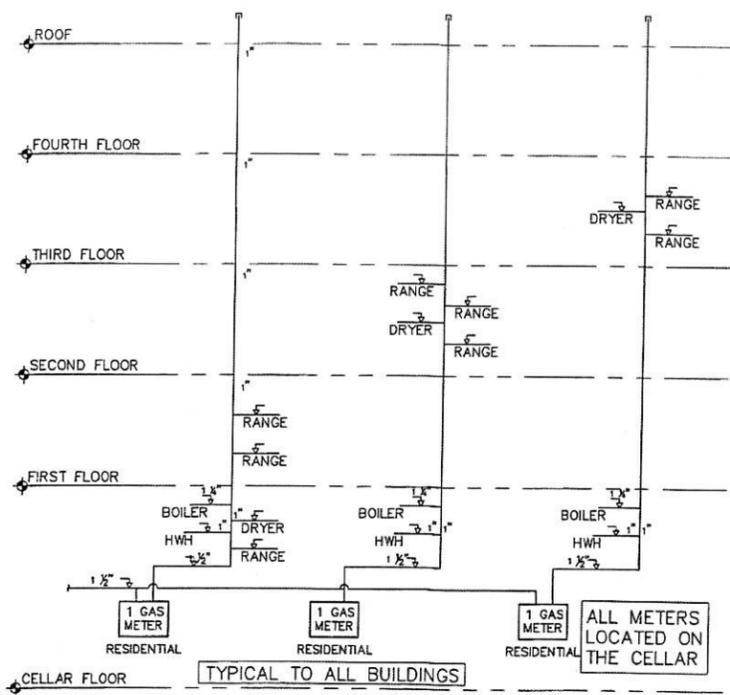
RELEASE STATUS OF DRAWING ISSUED:  
 SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 PROGRESS PRINT  
 PARTIAL RELEASE as built 2/15/15  
 FULL RELEASE  
 REVISION

SEAL & SIGNATURE DATE 1/27/12  
 PROJECT No 003-12  
 DRAWING BY  
 CHECKED BY  
 DWG No 10 OF 11  
 A-  
 009.01

NOT VALID FOR CONSTRUCTION UNLESS ORDERED AND SEALED BY THE ARCHITECT AND APPROVED BY THE DEPARTMENT OF BUILDINGS

EXAMINED FOR WORKING PAGES AND FIRE PREVENTION ONLY AS PER D.B. 305  
 JAN 15 2014  
 TEN-HSI CHEN, P.E.

AWARDED

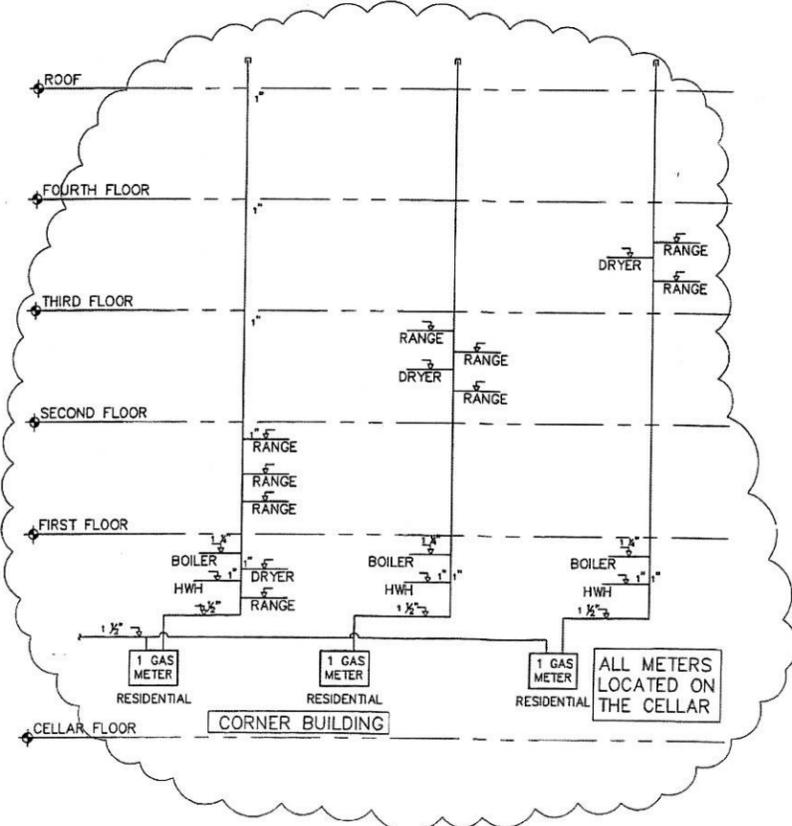


**PLUMBING RISER DIAGRAM**  
SCALE: NTS AS PER NYCPC 106.5

PLUMBING FIXTURE SCHEDULE						
SYMBOL	ABBR	DESCRIPTION	S/W	V	HW	CW
□	SINK	18 GA. STAINLESS STEEL WITH DRAIN 1 OR 2 COMPARTMENTS	2"	1 1/2"	1 1/2"	1 1/2"
□	LAV	LAVATORY SELF-RIMMING SET IN COUNTER TOP WITH CENTER SET & OPEN DRAIN	1 1/2"	1 1/2"	1 1/2"	1 1/2"
□	WC	WATER CLOSET FLUSH TANK FLOOR MOUNTED - WHITE, WITH OPEN FRONT SOLID PLASTIC SEAT - VITREOUS CHINA	4"	2"		3 1/4"
□	TUB	CAST IRON WITH ENAMEL FINISH BATH TUB	1 1/2"	1 1/2"	1 1/2"	1 1/2"
□	WM	WASHING MACHINE, PROVIDED BY OWNER, PROVIDE AMERICAN STANDARD VACUUM BREAKER (V4E440-704)	2"	1 1/2"	1 1/2"	1 1/2"
□	SHO	SHOWER WITH PRECAST RECEPTOR	2"	1 1/2"	1 1/2"	1 1/2"

**PLUMBING NOTES**

1. COMPLETE PLUMBING SYSTEM & DRAINAGE SYSTEM INSTALLATION SHALL COMPLY WITH ARTICLE 16 & RS16-1.
2. PROVIDE CLEANOUT AT BASE OF ALL STACKS.
3. PROVIDE AIR CHAMBERS AT TOP OF WATER RISERS MIN 18" TO 1' DIAMETER.
4. STANDARD WEIGHT BLACK STEEL PIPE FOR GAS SYSTEM WITH GALVANIZED STEEL FITTINGS.
5. FLOOR DRAINS SHALL BE PROVIDED WITH REMOVABLE STRAINER AS PER S16.
6. TRAPS FOR FLOOR DRAINS SHALL BE DEEP SEAL TYPE.
7. ROOF GUTTERS SHALL BE AS PER S16-19.
8. PLUMBING CONTRACTOR SHALL VERIFY ALL INVERT AND EXISTING CONDITIONS PRIOR TO THE INSTALLATION OF NEW WORK.
9. ALL HOT AND COLD WATER LINES TO BE INSULATED WITH 1" FIBERGLASS FOIL BACKED.
10. PROVIDE SHUT OFF VALVES ON ALL WATER SUPPLIES IN FIXTURE.
11. PURGE ALL WATER AND GAS LINES BEFORE FINAL CONNECTIONS.

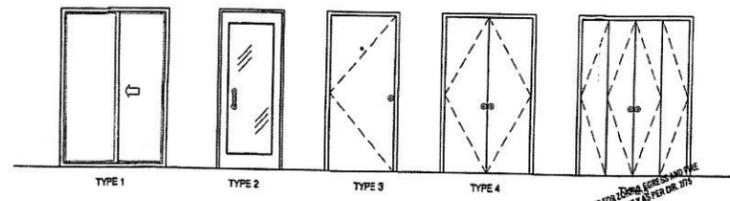
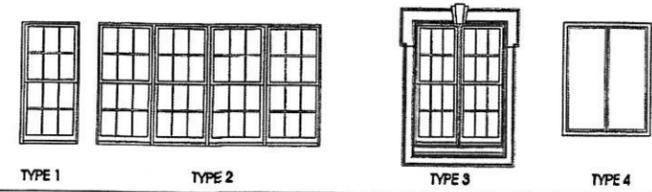


**GAS RISER DIAGRAM**

SCALE: NTS AS PER FGC 106.5

WINDOW SCHEDULE									
SYMBOL	SIZE	TYPE	MATERIAL	MANUF.	DESCRIPTION	U VALUE	SHGC	OTIC	SFC
(1)	36.75 x 36.75	2	ALUM CLAD	PELLA	2-WIDE CASEMENT	0.4	0.4	27	34
(2)	55.75 x 41.75	2	ALUM CLAD	PELLA	2-WIDE CASEMENT	0.4	0.4	27	34
(3)	115.75 x 55.75	2	ALUM CLAD	PELLA	4-WIDE DOUBLE HUNG	0.4	0.4	27	33
(4)	8.5'x6'								
(5)	66.75 x 58.75	2	ALUM CLAD	PELLA	2-WIDE CASEMENT	0.4	0.4	27	34
(6)	70.75 x 58.75	2	ALUM CLAD	PELLA	2-WIDE CASEMENT	0.4	0.4	27	34

ALL WINDOWS DOUBLE GLAZED



**DOOR SCHEDULE**

SYMBOL	SIZE UNIT	MATERIAL	FRAME	SADDLE	TYPE	REMARKS	U VALUE	SHGC
(A1)	3'-0" X 8'-0"	GLASS/AL.	ALUM.	ALUM.	1	MAIN ENTRANCE W/20 S.F. MIN. GLAZING	0.85	0.4
(A2)	3'-0" X 6'-8"	STEEL	STEEL	ALUM.	4	UNIT ENTRY W/PEEPHOLE & LOCK		
(A3)	3'-0" X 6'-8"	STEEL	STEEL	-	4	STAIRWELL / STORAGE / MECH.		
(A4)	(2) 2'-0" X 7'-0"	STEEL	STEEL	-	3	METER ROOMS		
(A5)	3'-0" X 6'-8"	STEEL	STEEL	-	4			
(C)	2'-0" X 8'-8"	WOOD	-	-	-	TOILET / BATHROOM		
(B)	2'-8" X 8'-8"	WOOD	-	-	4	BEDROOM		
(B1)	21'-0" X 8'-8"	WOOD	-	-	4	H.C. BEDROOM		
(C1)	2'-10" X 8'-8"	WOOD	-	-	8	H.C. TOILET		
(D)	2'-0" X 8'-8"	WOOD	-	-	4	W.I.C.		
(D1)	(2) 1'-8" X 6'-8"	WOOD	-	-	5	CLOSET		
(D2)	(2) 2'-0" X 6'-8"	WOOD	-	-	5	CLOSET		
(D3)	1'-8" X 6'-8"	WOOD	-	-	4	LINEN		
(E)	(2) 2'-8" X 7'-0"	GLASS/AL.	-	ALUM.	2	SLIDING DOOR	0.55	0.4
(F)	(2) 2'-0" X 7'-8"	GLASS/AL.	-	ALUM.	3	BALCONY W/ SIDELIGHTS	0.55	0.4

**PANOS VIKATOS R.A.**  
249-35 BEECH HOLLOW AVE  
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(917) 412-7105, PVARCHITECT@GMAIL.COM

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**PROJECT TITLE**  
NEW BUILDING  
THROOP AVE  
BROOKLYN, NY

**DRAWING TITLE**  
RISERS  
DOOR / WINDOW  
SCHEDULES

SCALE: AS NOTED

RELEASE STATUS OF DRAWING ISSUED:  
 SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 PROGRESS PRINT  
 PARTIAL RELEASE  
 FULL RELEASE As Built 2/15/15  
 REVISION

SEAL: REGISTERED ARCHITECT, STATE OF NEW YORK  
DATE: 1/27/12  
PROJECT No: 003-12  
DRAWING BY: [Signature]  
CHECKED BY: [Signature]  
DWG No: 11 OF 11  
A-010.01

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ARCHITECT AND APPROVED BY THE DEPARTMENT OF BUILDINGS.

**APPENDIX D**  
***Project Photographs***



Photo 1 - View of Site before remediation from Throop Avenue.



Photo 2 - View of Site during excavation.



Photo 3 - View of UST encountered during site excavation. All Boro Tank Service pumping out tank.



Photo 4. View of water and oil being pumped from open excavation.



Photo 5 - View of tank cut and cleaned.



Photo 6 - View of additional excavation of fill material to just below groundwater table.



Photo 7 - View of Site after excavation for new building is completed.



Photo 8 - View of over-excitation being completed to remove petroleum contaminated soil.



Photo 9 - View of excavation near complete in rear yard.



Photo 10 - View of crushed stone imported to backfill over excavated areas.



Photo 11 – Additional view of crushed stone imported to raise over-excavated Site above groundwater table.



Photo 12 - View of SSDS pipe layout.



Photo 14 – View of vapor barrier (Raven Industries VBP20 Plus) installed.



Photo 15 – Additional view of vapor barrier installed.



Photo 16 - View of finished building.

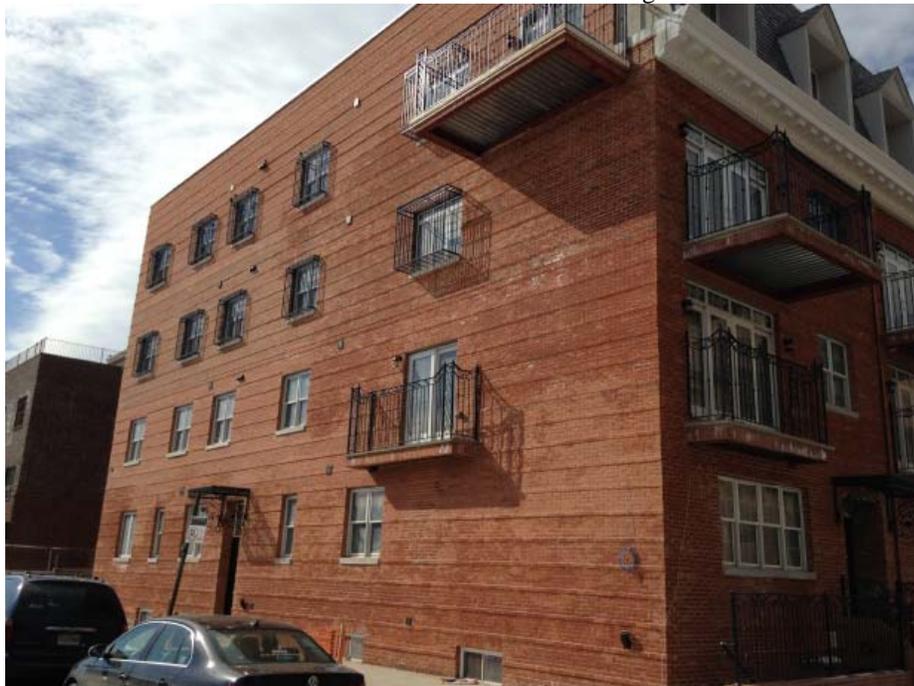


Photo 17. Additional view of finished building.

**APPENDIX E**

***Community Air Monitoring Results***















**APPENDIX F**  
***Daily Status Reports***

# DAILY STATUS REPORT

WEATHER	Snow	<input type="checkbox"/>	Rain	<input type="checkbox"/>	Overcast	<input type="checkbox"/>	Partly Cloudy	<input type="checkbox"/>	Bright Sun	<input checked="" type="checkbox"/>
TEMP.	TO 32	<input type="checkbox"/>	32-50	<input type="checkbox"/>	50-70	<input type="checkbox"/>	70-85	<input checked="" type="checkbox"/>	>85	<input type="checkbox"/>

Prepared By:

BCP Project No:	13CVCP147K	E-Number:		Date:	8-2-13
Project Name:	82 Throop Avenue, Brooklyn NY				

Consultant: Environmental Business Consultants	Safety Officer:  Kevin Waters
Contractor: HSD Construction	

Work Activities Performed (Since Last Report):  
 Live loaded 10 wheel dump trucks with soil from the front of the site for transport to Clean Earth of Carteret.

Working In Grid #:

Samples Collected (Since Last Report):  
 None

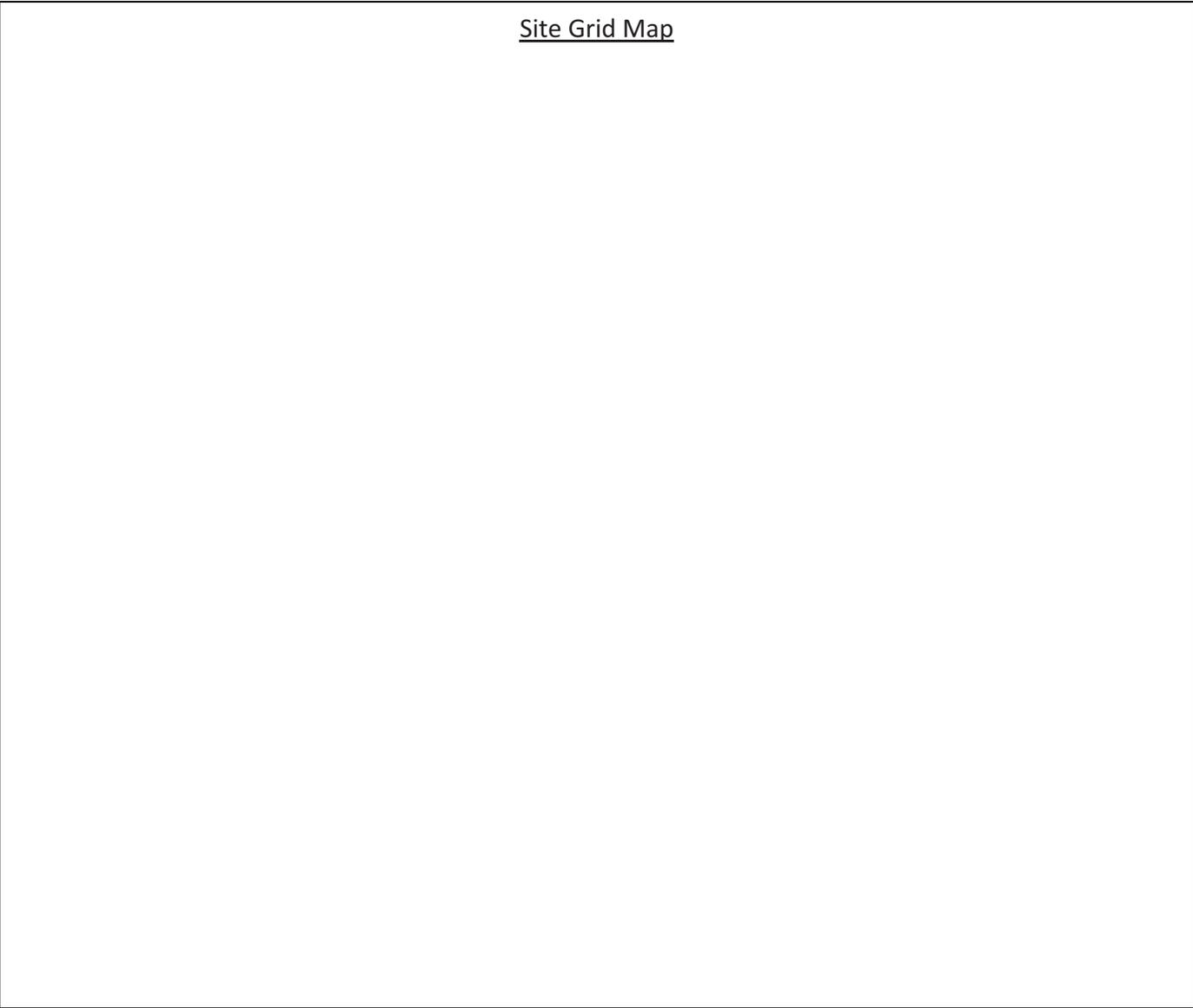
Air Monitoring (Since Last Report):  
 All air monitoring results within limits. No corrective action required.

Problems Encountered:  
 None

Planned Activities for Next Week:  
 Continue loading soil from onsite for transport to Clean Earth of Carteret.

Example:

Facility # Name/ location type of waste	Clean Earth of Carteret, NJ								##### Clean Earth Carteret, NJ petroleum soils trucks (cy) Solid <u>Or</u> Liquid	
	Solid		Solid		Solid		Liquid		Trucks	Cu. Yds. <u>Or</u> Gallons
Today (trucks, cu.yds.)	Trucks	Cu. Yds.	Trucks	Cu. Yds.	Trucks	Cu. Yds.	Trucks	Gallons	Trucks	Cu. Yds. <u>Or</u> Gallons
	5	120							5	120
Totals (trucks, cu.yds.)	5	120							25	600



## Photo Log

Photo 1 –  
View of the site looking towards Throop Avenue.



Photo 2 –  
View of northern portion of site looking towards Throop Ave.



Photo 3 –  
View of the southern portion of the site looking towards Throop Ave.



# DAILY STATUS REPORT

WEATHER	Snow	<input type="checkbox"/>	Rain	<input type="checkbox"/>	Overcast	<input type="checkbox"/>	Partly Cloudy	<input type="checkbox"/>	Bright Sun	<input checked="" type="checkbox"/>
TEMP.	TO 32	<input type="checkbox"/>	32-50	<input type="checkbox"/>	50-70	<input type="checkbox"/>	70-85	<input checked="" type="checkbox"/>	>85	<input type="checkbox"/>

Prepared By: Kevin Waters

BCP Project No:	13CVCP147K	E-Number:		Date:	8-5-13
Project Name:	82 Throop Avenue, Brooklyn NY				

Consultant: Environmental Business Consultants	Safety Officer:  Kevin Waters
Contractor: HSD Construction	

**Work Activities Performed (Since Last Report):**  
 Live loaded 10 wheel dump trucks with soil from the front of the site for transport to Clean Earth of Carteret. Unearthed 1050 gallon UST. Tank has approximately 8 inches of water and sediment in base of tank. All Boro Tank called to come and pump out the tank, clean and remove offsite. Free floating product was encountered on groundwater while excavating soil. Oil absorbent pads were brought in to soak up product and All Boro tank will skim off product when they come to pump out the tank.

Working In Grid #:

**Samples Collected (Since Last Report):**  
 None

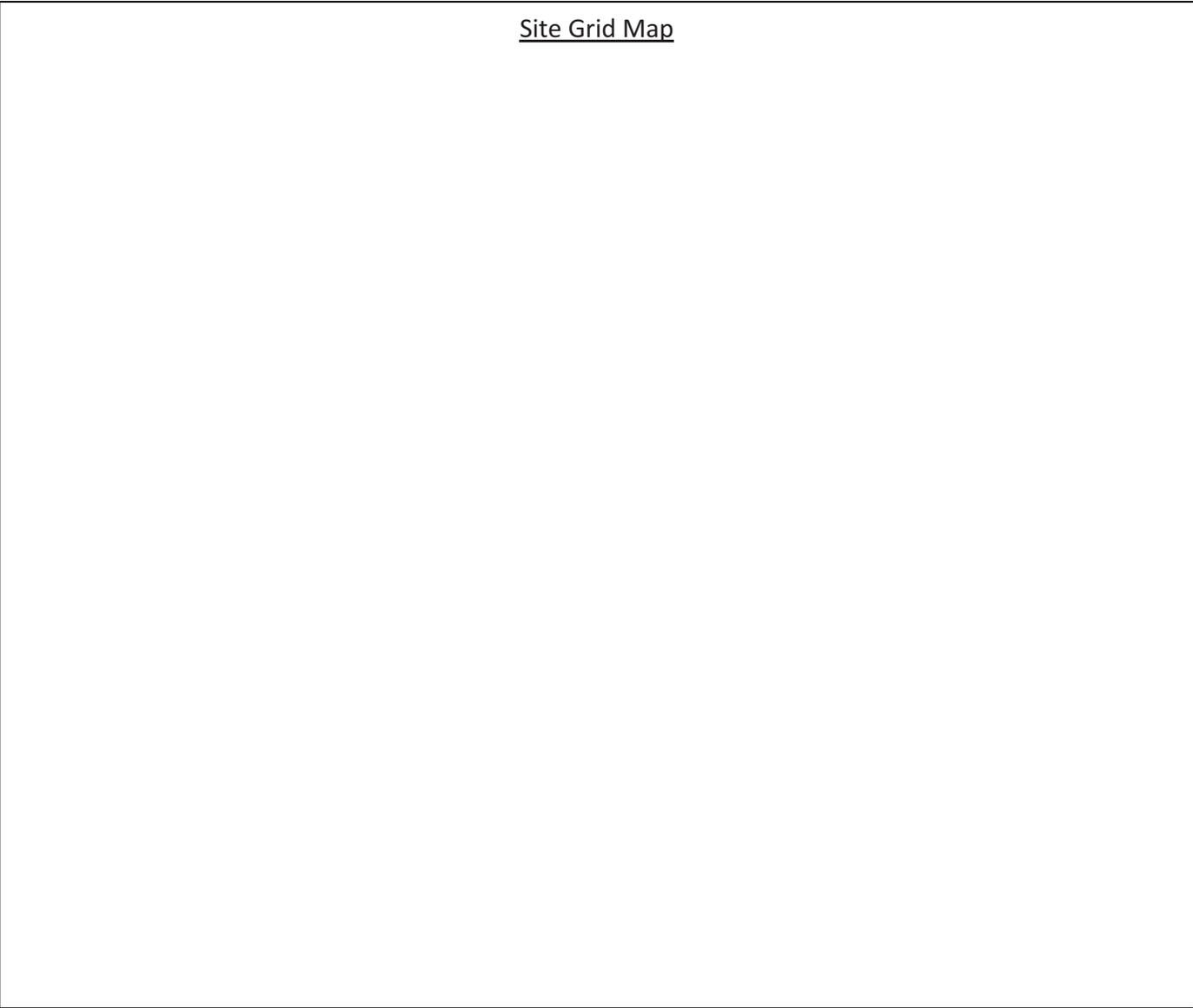
**Air Monitoring (Since Last Report):**  
 All air monitoring results within limits. No corrective action required.

**Problems Encountered:**  
 None

**Planned Activities for Next Week:**  
 Continue loading soil from onsite for transport to Clean Earth of Carteret.

Example:

Facility # Name/ location type of waste	Clean Earth of Carteret, NJ								##### Clean Earth Carteret, NJ petroleum soils trucks (cy) Solid <u>Or</u> Liquid	
	Solid		Solid		Solid		Liquid		Trucks	Cu. Yds. <u>Or</u> Gallons
Today (trucks, cu.yds.)	Trucks	Cu. Yds.	Trucks	Cu. Yds.	Trucks	Cu. Yds.	Trucks	Gallons	Trucks	Cu. Yds. <u>Or</u> Gallons
	8	192							5	120
Totals (trucks, cu.yds.)	13	312							25	600



## Photo Log

Photo 1 –  
View of the UST exposed during  
loading of trucks.



Photo 2 –  
Close up view of the UST.



Photo 3 –  
View of the excavation of the front  
portion of the site towards Throop Ave.



# DAILY STATUS REPORT

WEATHER	Snow	<input type="checkbox"/>	Rain	<input type="checkbox"/>	Overcast	<input type="checkbox"/>	Partly Cloudy	<input type="checkbox"/>	Bright Sun	<input checked="" type="checkbox"/>
TEMP.	TO 32	<input type="checkbox"/>	32-50	<input type="checkbox"/>	50-70	<input type="checkbox"/>	70-85	<input checked="" type="checkbox"/>	>85	<input type="checkbox"/>

Prepared By: Kevin Waters

BCP Project No:	13CVCP147K	E-Number:		Date:	8-6-13
Project Name:	82 Throop Avenue, Brooklyn NY				

Consultant: Environmental Business Consultants	Safety Officer:  Kevin Waters
Contractor: HSD Construction	

**Work Activities Performed (Since Last Report):**  
 Sorting garbage and debris from soil.  
 All Boro Tank onsite and pumped out UST. Cut tank open and cleaned out sediment.  
 All Boro Tank also skimmed off free floating product on groundwater.  
 All Boro to continue cutting tank and remove offsite 8-7-13.

Working In Grid #:

**Samples Collected (Since Last Report):**  
 None

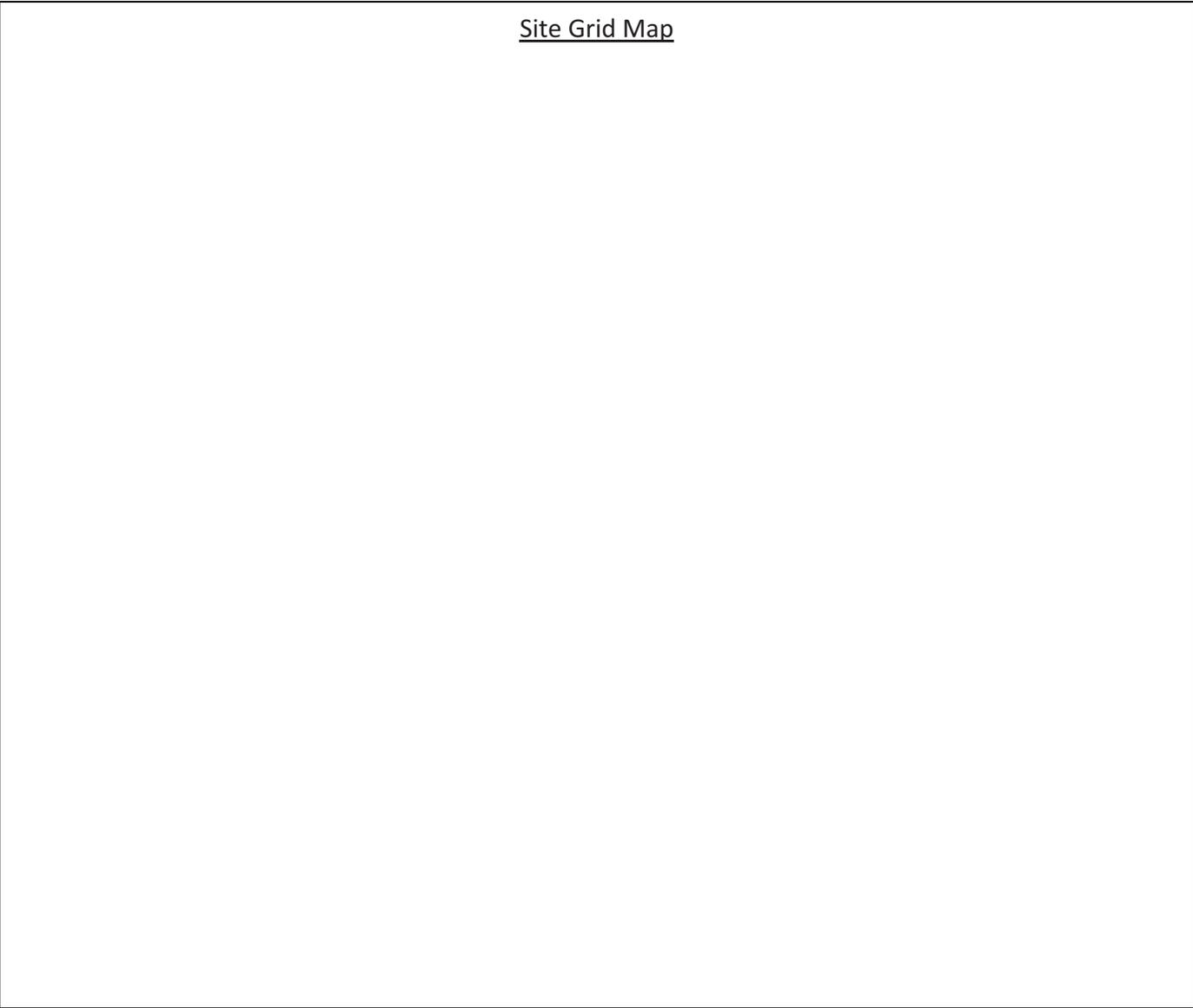
**Air Monitoring (Since Last Report):**  
 All air monitoring results within limits. No corrective action required.

**Problems Encountered:**  
 None

**Planned Activities for Next Week:**  
 Continue loading soil from onsite for transport to Clean Earth of Carteret.

Example:

Facility # Name/ location type of waste	Clean Earth of Carteret, NJ		Solid		Solid		Liquid		##### Clean Earth Carteret, NJ petroleum soils trucks (cy) Solid <u>Or</u> Liquid	
	Trucks	Cu. Yds.	Trucks	Cu. Yds.	Trucks	Cu. Yds.	Trucks	Gallons	Trucks	Cu. Yds. <u>Or</u> Gallons
Today (trucks, cu.yds.)									5	120
Totals (trucks, cu.yds.)	13	312							25	600



## Photo Log

Photo 1 –  
View of oil absorbent pads on  
groundwater.



Photo 2 –  
View of All Boro pumping out liquids  
within the UST.



Photo 3 –  
View of All Boro skimming off product  
from groundwater.



# DAILY STATUS REPORT

WEATHER	Snow	<input type="checkbox"/>	Rain	<input type="checkbox"/>	Overcast	<input type="checkbox"/>	Partly Cloudy	<input type="checkbox"/>	Bright Sun	<input checked="" type="checkbox"/>
TEMP.	TO 32	<input type="checkbox"/>	32-50	<input type="checkbox"/>	50-70	<input type="checkbox"/>	70-85	<input checked="" type="checkbox"/>	>85	<input type="checkbox"/>

Prepared By: Kevin Waters

BCP Project No:	13CVCP147K	E-Number:		Date:	8-7-13
Project Name:	82 Throop Avenue, Brooklyn NY				

Consultant: Environmental Business Consultants	Safety Officer:  Sara Babyatski
Contractor: HSD Construction	

**Work Activities Performed (Since Last Report):**  
 Sorting garbage and debris from soil.  
 All Boro Tank onsite to continue cutting UST and removed offsite.

Working In Grid #:

**Samples Collected (Since Last Report):**  
 Collected two UST bottom endpoint samples from soil directly below UST.

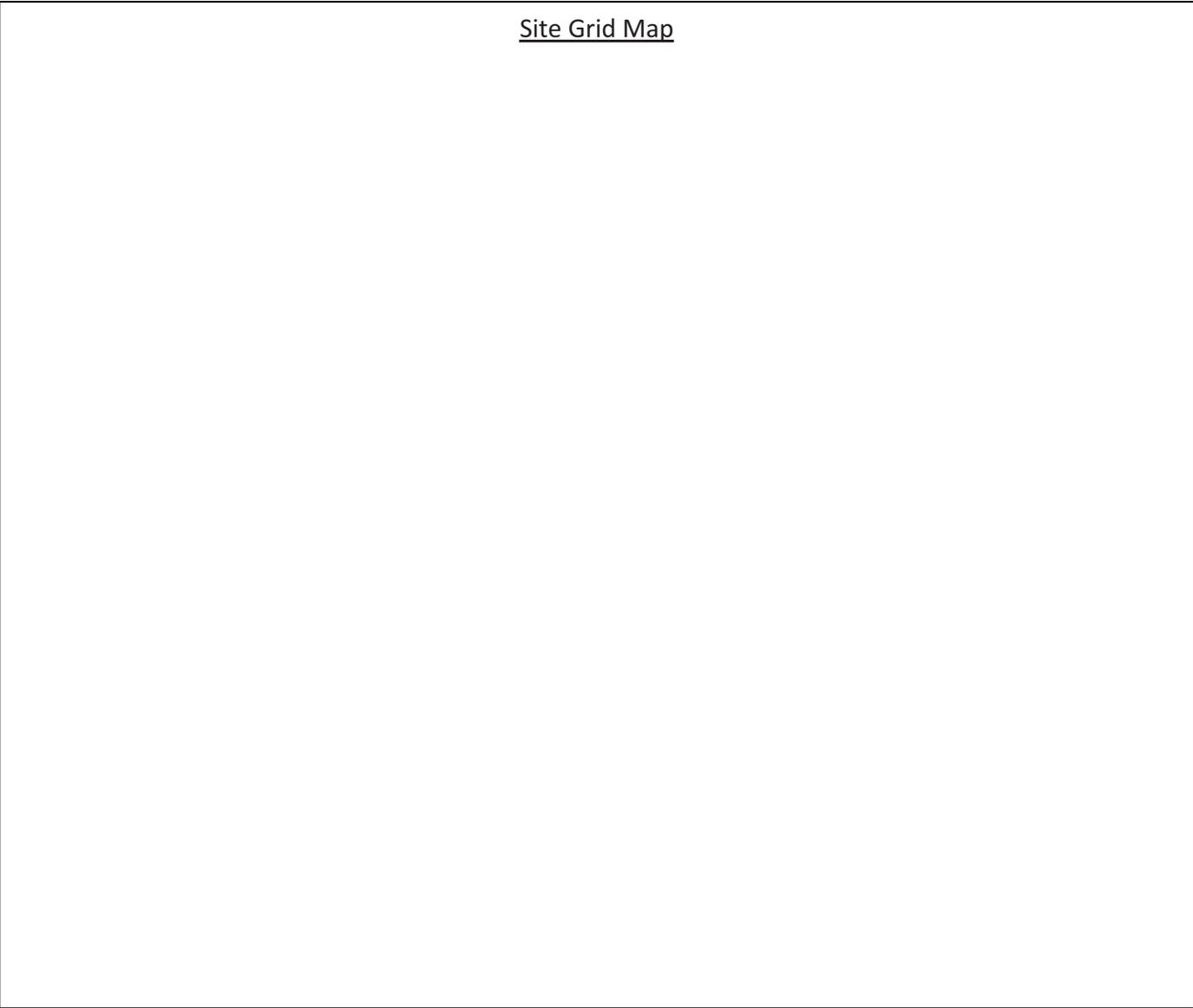
**Air Monitoring (Since Last Report):**  
 All air monitoring results within limits. No corrective action required.

**Problems Encountered:**  
 None

**Planned Activities for Next Week:**  
 Continue loading soil from onsite for transport to Clean Earth of Carteret.

Example:

Facility # Name/ location type of waste	Clean Earth of Carteret, NJ		Solid		Solid		Liquid		<span style="color: red;">#####</span> <span style="color: red;">Clean Earth</span> <span style="color: red;">Carteret, NJ</span> <span style="color: red;">petroleum soils</span> <span style="color: red;">trucks (cy)</span> Solid <u>Or</u> Liquid	
	Trucks	Cu. Yds.	Trucks	Cu. Yds.	Trucks	Cu. Yds.	Trucks	Gallons	Trucks	Cu. Yds. <u>Or</u> Gallons
Today (trucks, cu.yds.)									5	120
Totals (trucks, cu.yds.)	13	312							25	600



## Photo Log

Photo 1 –  
Screening soil of garbage with  
excavator.



Photo 2 –  
Cutting tank for removal.



Photo 3 –  
Soil below tank grave and flags  
marking endpoint sample locations.



# DAILY STATUS REPORT

WEATHER	Snow	<input type="checkbox"/>	Rain	<input checked="" type="checkbox"/>	Overcast	<input type="checkbox"/>	Partly Cloudy	<input type="checkbox"/>	Bright Sun	<input checked="" type="checkbox"/>
TEMP.	TO 32	<input type="checkbox"/>	32-50	<input type="checkbox"/>	50-70	<input type="checkbox"/>	70-85	<input checked="" type="checkbox"/>	>85	<input type="checkbox"/>

Prepared By:

BCP Project No:	13CVCP147K	E-Number:		Date:	8-13-13
Project Name:	82 Throop Avenue, Brooklyn NY				

Consultant: Environmental Business Consultants	Safety Officer:  Kevin Waters
Contractor: HSD Construction	

Work Activities Performed (Since Last Report):  
 Loaded 10 wheel dump trucks with soil for transport to Clean Earth of Carteret.

Working In Grid #:

Samples Collected (Since Last Report):  
 No samples have been collected.

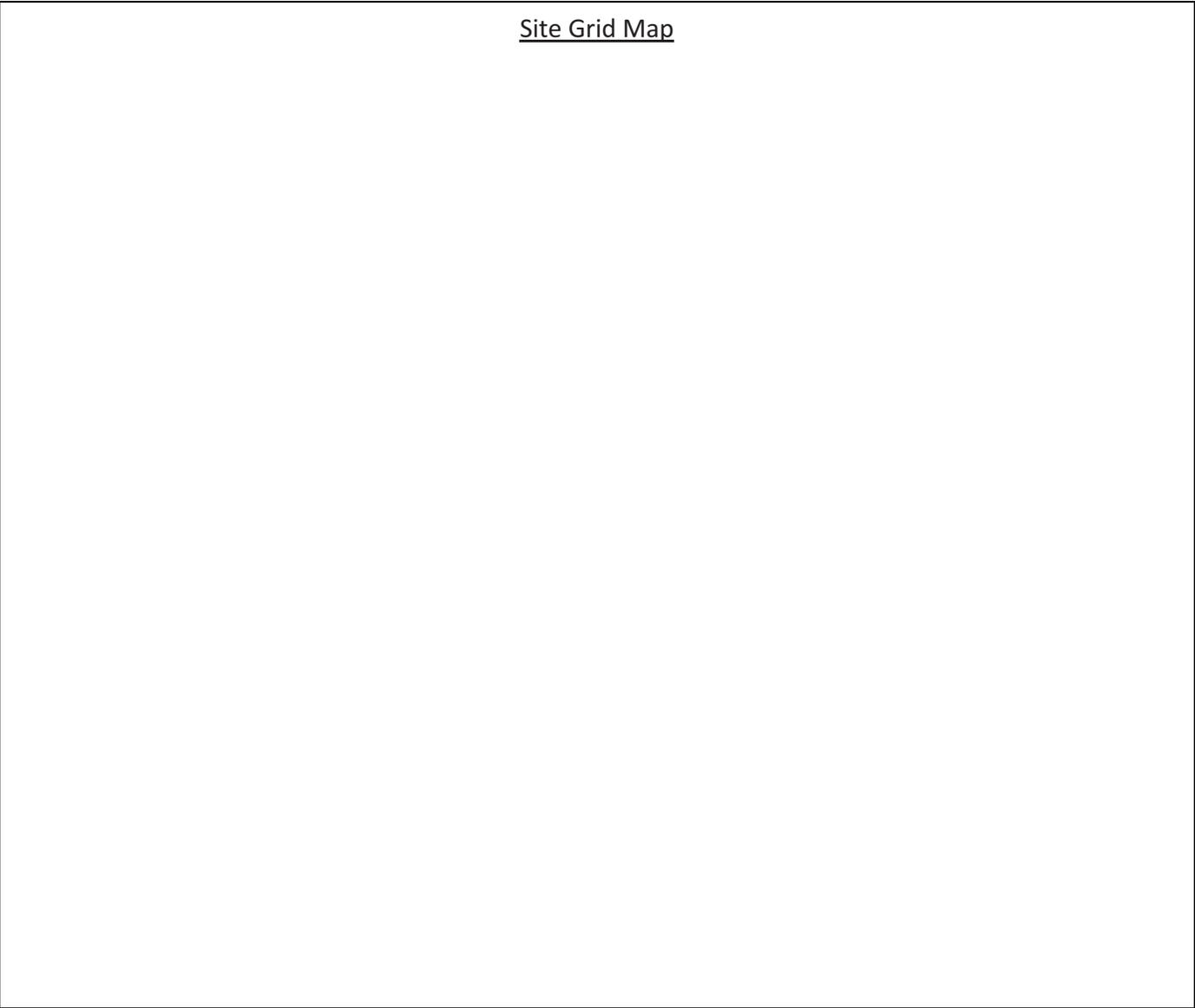
Air Monitoring (Since Last Report):  
 All air monitoring results within limits. No corrective action required.

Problems Encountered:  
 None

Planned Activities for Next Week:  
 Continue loading soil from onsite for transport to Clean Earth of Carteret.

Example:

Facility # Name/ location type of waste	Clean Earth of Carteret, NJ								##### Clean Earth Carteret, NJ petroleum soils trucks (cy) Solid Or Liquid	
	Solid		Solid		Solid		Liquid		Trucks	Cu. Yds. Or Gallons
Today (trucks, cu.yds.)	Trucks	Cu. Yds.	Trucks	Cu. Yds.	Trucks	Cu. Yds.	Trucks	Gallons	Trucks	Cu. Yds. Or Gallons
	9	216							5	120
Totals (trucks, cu.yds.)	22	528							25	600



## Photo Log

Photo 1 –  
Loading of Truck, due to rain no other  
pictures available.



Photo 2 –

Photo 3 –

# DAILY STATUS REPORT

WEATHER	Snow	<input type="checkbox"/>	Rain	<input type="checkbox"/>	Overcast	<input type="checkbox"/>	Partly Cloudy	<input type="checkbox"/>	Bright Sun	<input checked="" type="checkbox"/>
TEMP.	TO 32	<input type="checkbox"/>	32-50	<input type="checkbox"/>	50-70	<input type="checkbox"/>	70-85	<input checked="" type="checkbox"/>	>85	<input type="checkbox"/>

Prepared By:

BCP Project No:	13CVCP147K	E-Number:		Date:	8-15-13
Project Name:	82 Throop Avenue, Brooklyn NY				

Consultant: Environmental Business Consultants	Safety Officer:  Kevin Waters
Contractor: HSD Construction	

**Work Activities Performed (Since Last Report):**  
 Loaded 10 wheel dump trucks with soil for transport to Clean Earth of Carteret.  
 Excavate petroleum impacted soil from central portion of site.  
 Collect two bottom endpoint samples.

Working In Grid #:

**Samples Collected (Since Last Report):**  
 Two bottom endpoint samples were collected from the central portion of the site.

**Air Monitoring (Since Last Report):**  
 All air monitoring results within limits. No corrective action required.

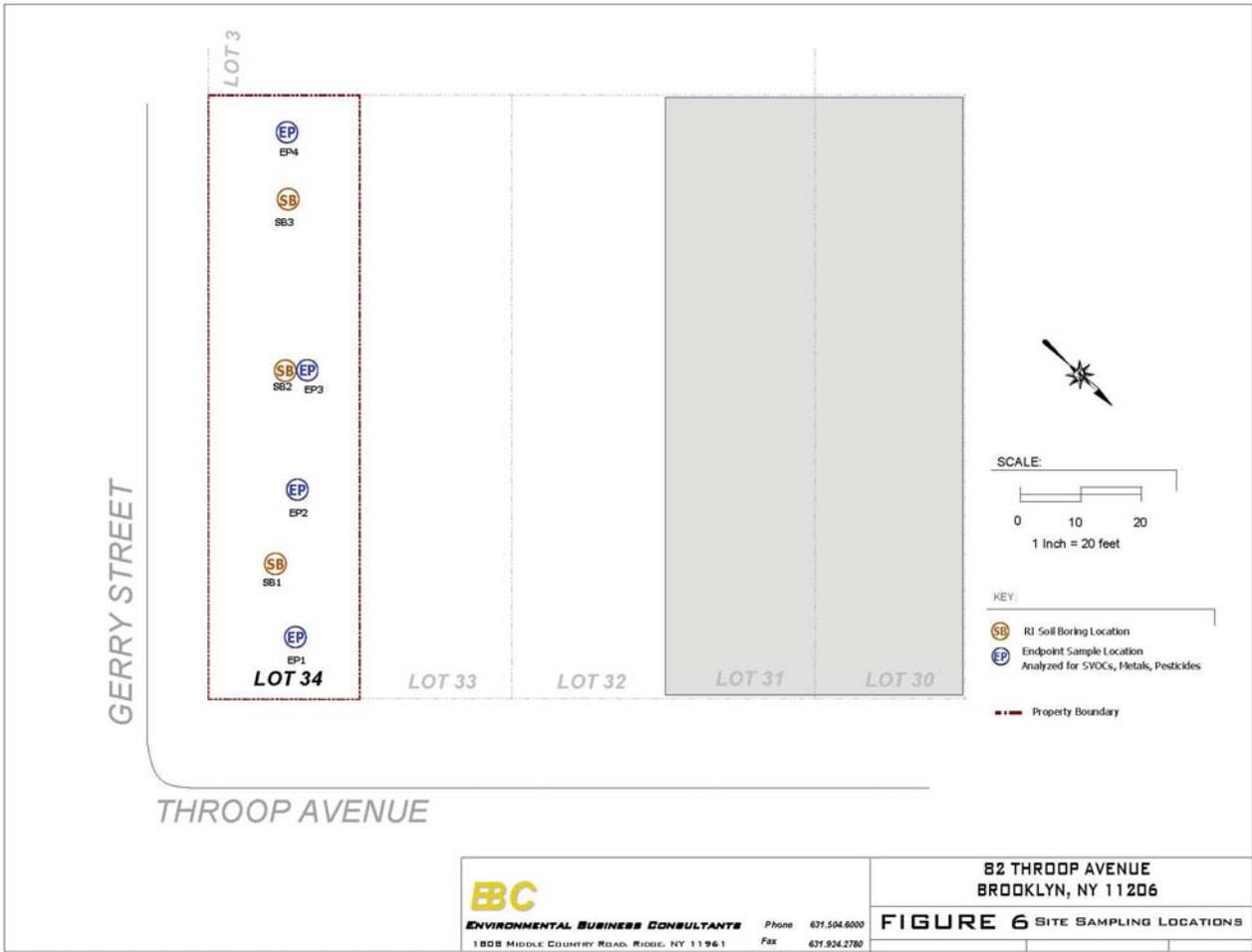
**Problems Encountered:**  
 None

**Planned Activities for Next Week:**  
 Continue loading soil from onsite for transport to Clean Earth of Carteret.

Example:

Facility # Name/ location type of waste	Clean Earth of Carteret, NJ		Solid		Solid		Liquid		##### Clean Earth Carteret, NJ petroleum soils trucks (cy) Solid <u>Or</u> Liquid	
	Trucks	Cu. Yds.	Trucks	Cu. Yds.	Trucks	Cu. Yds.	Trucks	Gallons	Trucks	Cu. Yds. <u>Or</u> Gallons
Today (trucks, cu.yds.)	4	96							5	120
Totals (trucks, cu.yds.)	26	624							25	600

Site Grid Map



## Photo Log

Photo 1 –  
View of the site looking towards Throop Avenue.



Photo 2 –  
View of endpoint sample location marked with orange flag. Grey petroleum contaminated soil was excavated and stockpiled for removal. Brown sands below were sampled.



Photo 3 –  
View of the central portion of the site. Grey petroleum contaminated soil being excavated and stockpiled for removal.



# DAILY STATUS REPORT

Prepared By: **Kevin Waters**

WEATHER	Snow	Rain	Overcast	Partly Cloudy	Bright Sun	X
TEMP.	< 32	32-50	50-70	70-85	X	>85

VCP Project No.:	<b>13CVCP147K</b>	E-Number:		Date:	<b>Oct 4, 2013</b>
Project Name:	<b>82 Throop Avenue, Brooklyn, NY</b>				

Consultant: <b>Environmental Business Consultants</b>	Safety Officer: <b>Kevin Waters</b>
General Contractor: <b>HSD CONSTRUCTION</b>	Site Manager/ Supervisor: <b>SAUL LICHTENSTEIN</b>

Work Activities Performed Today by General Contractor:

- 1) **SSDS inspection**
- 2)
- 3)
- 4)

Working In Grid #:

Samples Collected Today:  
**No samples collected today.**

Community Air Monitoring Results:  
**All air monitoring results within limits. No corrective actions required.**

Problems Encountered:  
**No problems encountered.**

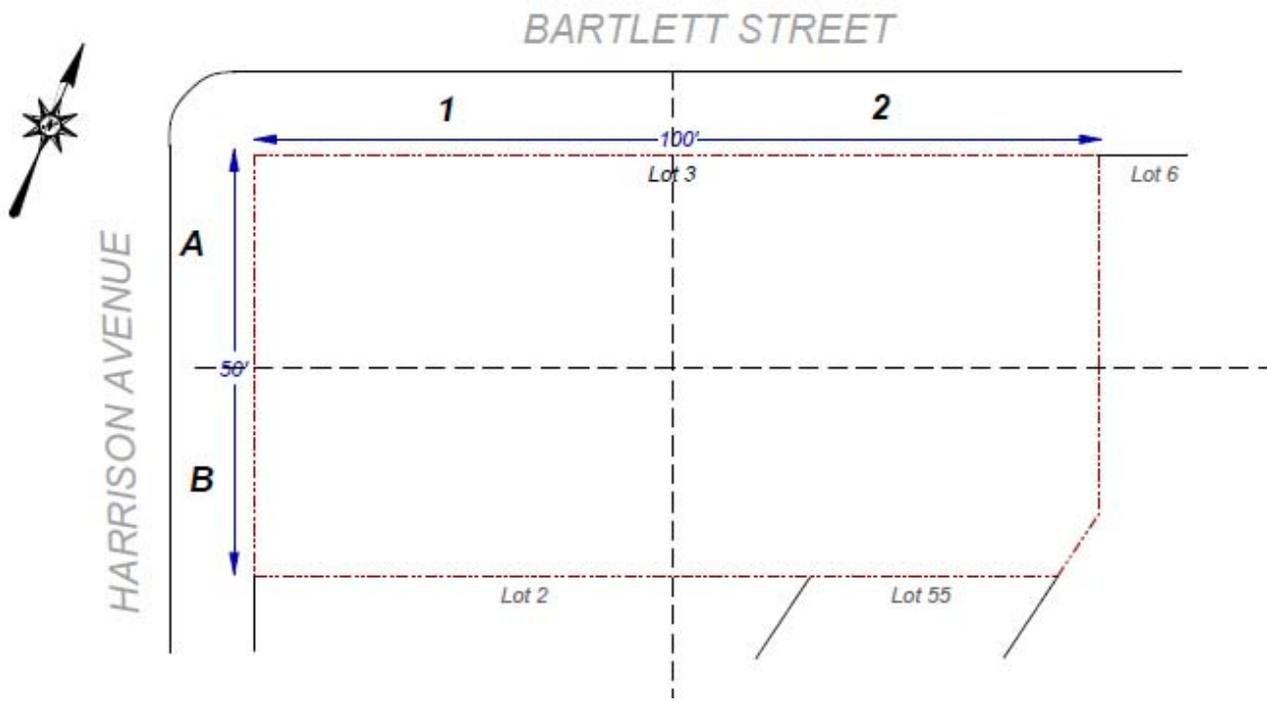
Planned Activities for the Next Day/ Week:

- 1) **vapor barrier installation**
- 2)
- 3)

Facility # Name/ Location Type of Waste Solid <u>Or</u> Liquid	Clean Earth of Carteret									
Trucks in yd <sup>3</sup> or Gal	Trucks	yd <sup>3</sup>	Trucks	yd <sup>3</sup>	Trucks	yd <sup>3</sup>	Trucks	yd <sup>3</sup>	Trucks	yd <sup>3</sup>
Today										
Total	37	899								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd <sup>3</sup>	Total	Trucks	yd <sup>3</sup>

**Site Grip Map**



**Photo Log**

Photo 1  
- SSDS



Photo 2

—



Photo 3

—

Photo 4

—

# DAILY STATUS REPORT

Prepared By: **Kevin Waters**

WEATHER	Snow	Rain	Overcast	Partly Cloudy	Bright Sun	X
TEMP.	< 32	32-50	50-70	70-85	X	>85

VCP Project No.:	<b>13CVCP147K</b>	E-Number:		Date:	<b>Oct 10, 2013</b>
Project Name:	<b>82 Throop Avenue, Brooklyn, NY</b>				

Consultant: <b>Environmental Business Consultants</b>	Safety Officer: <b>Kevin Waters</b>
--	--

General Contractor: <b>HSD CONSTRUCTION</b>	Site Manager/ Supervisor: <b>SAUL LICHTENSTEIN</b>
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Work Activities Performed Today by General Contractor:

- 1) **Vapor Barrier Inspection**
- 2)
- 3)
- 4)

Working In Grid #:

Samples Collected Today:  
**No samples collected today.**

Community Air Monitoring Results:  
**All air monitoring results within limits. No corrective actions required.**

Problems Encountered:  
**No problems encountered.**

Planned Activities for the Next Day/ Week:

- 1) **Foundation form work**
- 2)
- 3)

Facility # Name/ Location Type of Waste Solid <u>Or</u> Liquid	Clean Earth of Carteret									
	Trucks	yd <sup>3</sup>	Trucks	yd <sup>3</sup>	Trucks	yd <sup>3</sup>	Trucks	yd <sup>3</sup>	Trucks	yd <sup>3</sup>
Today										
Total	37	899								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd <sup>3</sup>	Total	Trucks	yd <sup>3</sup>

**Site Grip Map**

**Photo Log**

Photo  
1 –  
vapor  
barrie  
r



Photo  
2 –  
Vapo  
r  
barrie  
r



Photo  
3 –



Photo  
4 -

# DAILY STATUS REPORT

Prepared By: **Kevin Waters**

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70		70-85	X	>85	

VCP Project No.:	<b>13CVCP147K</b>	E-Number:		Date:	<b>Oct 14, 2013</b>
Project Name:	<b>82 Throop Avenue, Brooklyn, NY</b>				

Consultant: <b>Environmental Business Consultants</b>	Safety Officer: <b>Kevin Waters</b>
General Contractor: <b>HSD CONSTRUCTION</b>	Site Manager/ Supervisor: <b>SAUL LICHTENSTEIN</b>

Work Activities Performed Today by General Contractor:

- 1) **Load trucks with stockpiled soil and transport to Clean Earth of Carteret.**
- 2)
- 3)
- 4)

Working In Grid #:

Samples Collected Today:  
**No samples collected today.**

Community Air Monitoring Results:  
**All air monitoring results within limits. No corrective actions required.**

Problems Encountered:  
**No problems encountered.**

Planned Activities for the Next Day/ Week:

- 1) **Foundation form work**
- 2) **Transport soil to Clean Earth of Carteret**
- 3)

Facility # Name/ Location Type of Waste Solid <u>Or</u> Liquid	Clean Earth of Carteret									
Trucks in yd <sup>3</sup> or Gal	Trucks	yd <sup>3</sup>	Trucks	yd <sup>3</sup>	Trucks	yd <sup>3</sup>	Trucks	yd <sup>3</sup>	Trucks	yd <sup>3</sup>
Today	6	144								
Total	43	1,043								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd <sup>3</sup>	Total	Trucks	yd <sup>3</sup>

**Site Grip Map**

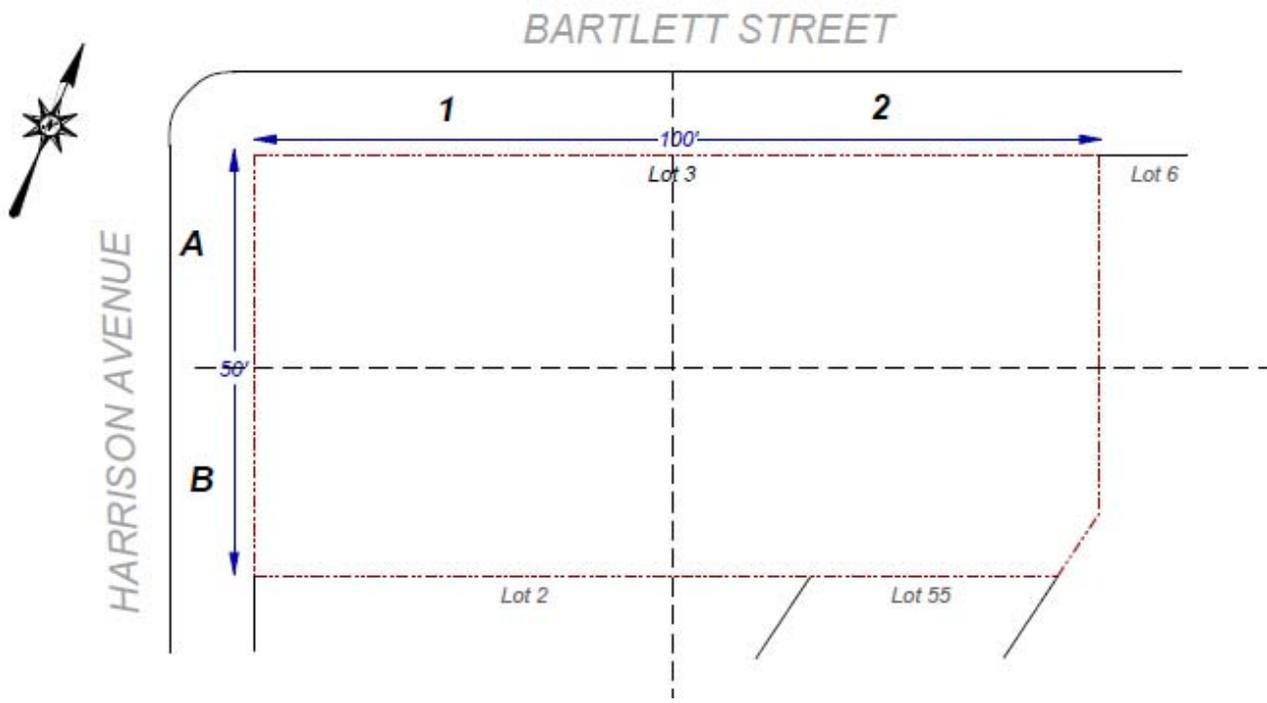


Photo Log

Photo 1  
– Load  
stockpile  
d soil



Photo 2

—

Photo 3

—

Photo 4

—

# DAILY STATUS REPORT

Prepared By: **Kevin Waters**

WEATHER	Snow	Rain	Overcast	Partly Cloudy	X	Bright Sun	
TEMP.	< 32	32-50	50-70	70-85	X	>85	

VCP Project No.:	<b>13CVCP147K</b>	E-Number:		Date:	<b>Oct 16, 2013</b>
Project Name:	<b>82 Throop Avenue, Brooklyn, NY</b>				

Consultant: <b>Environmental Business Consultants</b>	Safety Officer: <b>Kevin Waters</b>
General Contractor: <b>HSD CONSTRUCTION</b>	Site Manager/ Supervisor: <b>SAUL LICHTENSTEIN</b>

Work Activities Performed Today by General Contractor:

- 1) **Load trucks with stockpiled soil and transport to Clean Earth of Carteret.**
- 2)
- 3)
- 4)

Working In Grid #:

Samples Collected Today:  
**No samples collected today.**

Community Air Monitoring Results:  
**All air monitoring results within limits. No corrective actions required.**

Problems Encountered:  
**No problems encountered.**

Planned Activities for the Next Day/ Week:

- 1) **Foundation form work**
- 2)
- 3)

Facility # Name/ Location Type of Waste Solid <u>Or</u> Liquid										
Trucks in yd <sup>3</sup> or Gal	Trucks	yd <sup>3</sup>								
Today	6	144								
Total	49	1,187								

NYC Clean Soil Bank		Receiving Facility:			
Tracking No.:					
Today	Trucks	yd <sup>3</sup>	Total	Trucks	yd <sup>3</sup>

**Site Grip Map**

Photo 2

—



Photo 3

—

**APPENDIX G**  
***Endpoint Laboratory Report***



Friday, September 20, 2013

Attn: Mr. Charles B. Sosik, P.G.  
Environmental Business Consultants  
1808 Middle Country Rd  
Ridge NY 11961-2406

Project ID: 82 THROOP AVE  
Sample ID#s: BF39123 - BF39128

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 September 20, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 09/12/13                      0:00  
 09/13/13                      15:55

Laboratory Data

SDG ID: GBF39123  
 Phoenix ID: BF39123

Project ID: 82 THROOP AVE  
 Client ID: EP 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	0.23	mg/Kg	09/14/13	LK	SW6010
Aluminum	6460	38	7.5	mg/Kg	09/14/13	LK	SW6010
Arsenic	4.5	0.8	0.75	mg/Kg	09/14/13	LK	SW6010
Barium	13.1	0.8	0.15	mg/Kg	09/14/13	LK	SW6010
Beryllium	0.52	0.30	0.15	mg/Kg	09/14/13	LK	SW6010
Calcium	654	3.8	3.5	mg/Kg	09/14/13	LK	SW6010
Cadmium	0.50	0.38	0.15	mg/Kg	09/14/13	LK	SW6010
Cobalt	3.71	0.38	0.15	mg/Kg	09/14/13	LK	SW6010
Chromium	15.2	0.38	0.15	mg/Kg	09/14/13	LK	SW6010
Copper	27.2	0.38	0.30	mg/kg	09/14/13	LK	SW6010
Iron	21900	38	38	mg/Kg	09/14/13	LK	SW6010
Mercury	< 0.08	0.08	0.05	mg/Kg	09/17/13	LK	SW-7471
Potassium	541	N 8	2.9	mg/Kg	09/14/13	LK	SW6010
Magnesium	1340	3.8	0.23	mg/Kg	09/14/13	LK	SW6010
Manganese	89.0	N 0.38	0.15	mg/Kg	09/14/13	LK	SW6010
Sodium	46	N 8	3.2	mg/Kg	09/14/13	LK	SW6010
Nickel	10.2	0.38	0.15	mg/Kg	09/14/13	LK	SW6010
Lead	3.9	0.8	0.23	mg/Kg	09/14/13	LK	SW6010
Antimony	< 1.9	1.9	0.75	mg/Kg	09/14/13	LK	SW6010
Selenium	< 1.5	1.5	1.3	mg/Kg	09/14/13	LK	SW6010
Thallium	< 1.5	1.5	1.5	mg/Kg	09/14/13	LK	SW6010
Vanadium	29.8	0.4	0.15	mg/Kg	09/14/13	LK	SW6010
Zinc	18.9	0.8	0.38	mg/Kg	09/14/13	LK	SW6010
Percent Solid	80			%	09/14/13	W	E160.3
Soil Extraction for PCB	Completed				09/13/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed				09/13/13	BB	SW3545
Soil Extraction for SVOA	Completed				09/13/13	JJ/FV	SW3545
Mercury Digestion	Completed				09/16/13	I/I	SW7471

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				09/13/13	Z/AG	SW846 - 3050
<b><u>Polychlorinated Biphenyls</u></b>							
PCB-1016	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1221	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1232	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1242	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1248	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1254	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1260	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1262	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1268	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	94			%	09/16/13	AW	30 - 150 %
% TCMX	76			%	09/16/13	AW	30 - 150 %
<b><u>Pesticides - Soil</u></b>							
4,4' -DDD	ND	3.0	3.0	ug/Kg	09/16/13	MH	SW8081
4,4' -DDE	ND	3.0	3.0	ug/Kg	09/16/13	MH	SW8081
4,4' -DDT	ND	3.0	3.0	ug/Kg	09/16/13	MH	SW8081
a-BHC	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
a-Chlordane	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Aldrin	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
b-BHC	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
Chlordane	ND	25	25	ug/Kg	09/16/13	MH	SW8081
d-BHC	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
Dieldrin	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
Endosulfan I	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Endosulfan II	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Endosulfan sulfate	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Endrin	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
Endrin aldehyde	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Endrin ketone	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
g-BHC	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
g-Chlordane	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Heptachlor	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
Heptachlor epoxide	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
Methoxychlor	ND	8.3	8.3	ug/Kg	09/16/13	MH	SW8081
Toxaphene	ND	40	40	ug/Kg	09/16/13	MH	SW8081
<b><u>QA/QC Surrogates</u></b>							
% DCBP	98			%	09/16/13	MH	30 - 150 %
% TCMX	73			%	09/16/13	MH	30 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	6.2	1.0	ug/Kg	09/17/13	HM	SW8260
1,1,1-Trichloroethane	ND	6.2	1.2	ug/Kg	09/17/13	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	6.2	0.88	ug/Kg	09/17/13	HM	SW8260
1,1,2-Trichloroethane	ND	6.2	0.61	ug/Kg	09/17/13	HM	SW8260
1,1-Dichloroethane	ND	6.2	1.2	ug/Kg	09/17/13	HM	SW8260
1,1-Dichloroethene	ND	6.2	1.3	ug/Kg	09/17/13	HM	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,1-Dichloropropene	ND	6.2	1.2	ug/Kg	09/17/13	HM	SW8260
1,2,3-Trichlorobenzene	ND	6.2	1.2	ug/Kg	09/17/13	HM	SW8260
1,2,3-Trichloropropane	ND	6.2	0.88	ug/Kg	09/17/13	HM	SW8260
1,2,4-Trichlorobenzene	ND	6.2	1.2	ug/Kg	09/17/13	HM	SW8260
1,2,4-Trimethylbenzene	ND	6.2	0.89	ug/Kg	09/17/13	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	6.2	1.7	ug/Kg	09/17/13	HM	SW8260
1,2-Dibromoethane	ND	6.2	1.6	ug/Kg	09/17/13	HM	SW8260
1,2-Dichlorobenzene	ND	6.2	0.68	ug/Kg	09/17/13	HM	SW8260
1,2-Dichloroethane	ND	6.2	0.54	ug/Kg	09/17/13	HM	SW8260
1,2-Dichloropropane	ND	6.2	0.88	ug/Kg	09/17/13	HM	SW8260
1,3,5-Trimethylbenzene	ND	6.2	0.82	ug/Kg	09/17/13	HM	SW8260
1,3-Dichlorobenzene	ND	6.2	0.92	ug/Kg	09/17/13	HM	SW8260
1,3-Dichloropropane	ND	6.2	0.66	ug/Kg	09/17/13	HM	SW8260
1,4-Dichlorobenzene	ND	6.2	0.98	ug/Kg	09/17/13	HM	SW8260
2,2-Dichloropropane	ND	6.2	1.0	ug/Kg	09/17/13	HM	SW8260
2-Chlorotoluene	ND	6.2	0.99	ug/Kg	09/17/13	HM	SW8260
2-Hexanone	ND	31	2.8	ug/Kg	09/17/13	HM	SW8260
2-Isopropyltoluene	ND	6.2	0.85	ug/Kg	09/17/13	HM	SW8260
4-Chlorotoluene	ND	6.2	0.72	ug/Kg	09/17/13	HM	SW8260
4-Methyl-2-pentanone	ND	31	1.5	ug/Kg	09/17/13	HM	SW8260
Acetone	ND	62	6.2	ug/Kg	09/17/13	HM	SW8260
Acrylonitrile	ND	12	3.5	ug/Kg	09/17/13	HM	SW8260
Benzene	ND	6.2	1.2	ug/Kg	09/17/13	HM	SW8260
Bromobenzene	ND	6.2	0.80	ug/Kg	09/17/13	HM	SW8260
Bromochloromethane	ND	6.2	0.90	ug/Kg	09/17/13	HM	SW8260
Bromodichloromethane	ND	6.2	0.77	ug/Kg	09/17/13	HM	SW8260
Bromoform	ND	6.2	0.87	ug/Kg	09/17/13	HM	SW8260
Bromomethane	ND	6.2	4.8	ug/Kg	09/17/13	HM	SW8260
Carbon Disulfide	ND	6.2	1.0	ug/Kg	09/17/13	HM	SW8260
Carbon tetrachloride	ND	6.2	0.72	ug/Kg	09/17/13	HM	SW8260
Chlorobenzene	ND	6.2	0.92	ug/Kg	09/17/13	HM	SW8260
Chloroethane	ND	6.2	1.4	ug/Kg	09/17/13	HM	SW8260
Chloroform	ND	6.2	1.1	ug/Kg	09/17/13	HM	SW8260
Chloromethane	ND	6.2	3.2	ug/Kg	09/17/13	HM	SW8260
cis-1,2-Dichloroethene	ND	6.2	1.3	ug/Kg	09/17/13	HM	SW8260
cis-1,3-Dichloropropene	ND	6.2	0.67	ug/Kg	09/17/13	HM	SW8260
Dibromochloromethane	ND	6.2	0.69	ug/Kg	09/17/13	HM	SW8260
Dibromomethane	ND	6.2	0.78	ug/Kg	09/17/13	HM	SW8260
Dichlorodifluoromethane	ND	6.2	1.6	ug/Kg	09/17/13	HM	SW8260
Ethylbenzene	ND	6.2	1.1	ug/Kg	09/17/13	HM	SW8260
Hexachlorobutadiene	ND	6.2	1.3	ug/Kg	09/17/13	HM	SW8260
Isopropylbenzene	ND	6.2	1.2	ug/Kg	09/17/13	HM	SW8260
m&p-Xylene	ND	6.2	2.4	ug/Kg	09/17/13	HM	SW8260
Methyl Ethyl Ketone	ND	37	5.4	ug/Kg	09/17/13	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	12	1.7	ug/Kg	09/17/13	HM	SW8260
Methylene chloride	1.6	J 6.2	1.0	ug/Kg	09/17/13	HM	SW8260
Naphthalene	ND	6.2	1.7	ug/Kg	09/17/13	HM	SW8260
n-Butylbenzene	ND	6.2	1.1	ug/Kg	09/17/13	HM	SW8260
n-Propylbenzene	ND	6.2	1.1	ug/Kg	09/17/13	HM	SW8260
o-Xylene	ND	6.2	2.4	ug/Kg	09/17/13	HM	SW8260

1

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
p-Isopropyltoluene	ND	6.2	0.89	ug/Kg	09/17/13	HM	SW8260
sec-Butylbenzene	ND	6.2	1.2	ug/Kg	09/17/13	HM	SW8260
Styrene	ND	6.2	1.8	ug/Kg	09/17/13	HM	SW8260
tert-Butylbenzene	ND	6.2	0.99	ug/Kg	09/17/13	HM	SW8260
Tetrachloroethene	ND	6.2	1.3	ug/Kg	09/17/13	HM	SW8260
Tetrahydrofuran (THF)	ND	12	5.6	ug/Kg	09/17/13	HM	SW8260
Toluene	ND	6.2	0.98	ug/Kg	09/17/13	HM	SW8260
trans-1,2-Dichloroethene	ND	6.2	1.2	ug/Kg	09/17/13	HM	SW8260
trans-1,3-Dichloropropene	ND	6.2	1.3	ug/Kg	09/17/13	HM	SW8260
trans-1,4-dichloro-2-butene	ND	12	11	ug/Kg	09/17/13	HM	SW8260
Trichloroethene	ND	6.2	1.3	ug/Kg	09/17/13	HM	SW8260
Trichlorofluoromethane	ND	6.2	1.4	ug/Kg	09/17/13	HM	SW8260
Trichlorotrifluoroethane	ND	6.2	0.97	ug/Kg	09/17/13	HM	SW8260
Vinyl chloride	ND	6.2	2.0	ug/Kg	09/17/13	HM	SW8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	98			%	09/17/13	HM	70 - 121 %
% Bromofluorobenzene	96			%	09/17/13	HM	59 - 113 %
% Dibromofluoromethane	98			%	09/17/13	HM	70 - 130 %
% Toluene-d8	95			%	09/17/13	HM	84 - 138 %
<b><u>Semivolatiles</u></b>							
1,2,4,5-Tetrachlorobenzene	ND	290	150	ug/Kg	09/14/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
1,2-Dichlorobenzene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
1,3-Dichlorobenzene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
1,4-Dichlorobenzene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	290	230	ug/Kg	09/14/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
2,4-Dichlorophenol	ND	290	150	ug/Kg	09/14/13	DD	SW 8270
2,4-Dimethylphenol	ND	290	100	ug/Kg	09/14/13	DD	SW 8270
2,4-Dinitrophenol	ND	2100	290	ug/Kg	09/14/13	DD	SW 8270
2,4-Dinitrotoluene	ND	290	160	ug/Kg	09/14/13	DD	SW 8270
2,6-Dinitrotoluene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
2-Chloronaphthalene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
2-Chlorophenol	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
2-Methylnaphthalene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	190	ug/Kg	09/14/13	DD	SW 8270
2-Nitroaniline	ND	2100	420	ug/Kg	09/14/13	DD	SW 8270
2-Nitrophenol	ND	290	260	ug/Kg	09/14/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	290	160	ug/Kg	09/14/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	830	200	ug/Kg	09/14/13	DD	SW 8270
3-Nitroaniline	ND	2100	900	ug/Kg	09/14/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	2100	450	ug/Kg	09/14/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	290	150	ug/Kg	09/14/13	DD	SW 8270
4-Chloroaniline	ND	830	190	ug/Kg	09/14/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
4-Nitroaniline	ND	2100	140	ug/Kg	09/14/13	DD	SW 8270
4-Nitrophenol	ND	2100	190	ug/Kg	09/14/13	DD	SW 8270

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Acenaphthene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Acenaphthylene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Acetophenone	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Aniline	ND	2100	840	ug/Kg	09/14/13	DD	SW 8270
Anthracene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Benz(a)anthracene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Benzidine	ND	830	240	ug/Kg	09/14/13	DD	SW 8270
Benzo(a)pyrene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Benzo(b)fluoranthene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Benzo(ghi)perylene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Benzo(k)fluoranthene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Benzoic acid	ND	2100	830	ug/Kg	09/14/13	DD	SW 8270 10
Benzyl butyl phthalate	ND	290	110	ug/Kg	09/14/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	290	110	ug/Kg	09/14/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	290	110	ug/Kg	09/14/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	290	120	ug/Kg	09/14/13	DD	SW 8270 1
Bis(2-ethylhexyl)phthalate	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Carbazole	ND	2100	310	ug/Kg	09/14/13	DD	SW 8270
Chrysene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Dibenzofuran	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Diethyl phthalate	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Dimethylphthalate	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Di-n-butylphthalate	ND	290	110	ug/Kg	09/14/13	DD	SW 8270
Di-n-octylphthalate	ND	290	110	ug/Kg	09/14/13	DD	SW 8270
Fluoranthene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Fluorene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Hexachlorobenzene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Hexachlorobutadiene	ND	290	150	ug/Kg	09/14/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Hexachloroethane	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Isophorone	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Naphthalene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Nitrobenzene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
N-Nitrosodimethylamine	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	290	160	ug/Kg	09/14/13	DD	SW 8270
Pentachloronitrobenzene	ND	290	150	ug/Kg	09/14/13	DD	SW 8270
Pentachlorophenol	ND	290	160	ug/Kg	09/14/13	DD	SW 8270
Phenanthrene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Phenol	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Pyrene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Pyridine	ND	290	100	ug/Kg	09/14/13	DD	SW 8270
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	85			%	09/14/13	DD	19 - 122 %
% 2-Fluorobiphenyl	79			%	09/14/13	DD	30 - 115 %
% 2-Fluorophenol	74			%	09/14/13	DD	25 - 121 %
% Nitrobenzene-d5	77			%	09/14/13	DD	23 - 120 %
% Phenol-d5	77			%	09/14/13	DD	24 - 113 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Terphenyl-d14	93			%	09/14/13	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
10 = This parameter is not certified by NY NELAC for this matrix.  
B = Present in blank, no bias suspected.

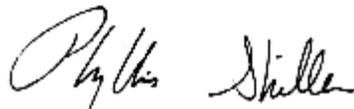
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**September 20, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 September 20, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 09/12/13                      0:00  
 09/13/13                      15:55

Laboratory Data

SDG ID: GBF39123  
 Phoenix ID: BF39124

Project ID: 82 THROOP AVE  
 Client ID: EP 4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.39	0.39	0.23	mg/Kg	09/14/13	LK	SW6010
Aluminum	3820	39	7.8	mg/Kg	09/14/13	LK	SW6010
Arsenic	1.7	0.8	0.78	mg/Kg	09/14/13	LK	SW6010
Barium	23.5	0.8	0.16	mg/Kg	09/14/13	LK	SW6010
Beryllium	0.29	B 0.31	0.16	mg/Kg	09/14/13	LK	SW6010
Calcium	1040	3.9	3.6	mg/Kg	09/14/13	LK	SW6010
Cadmium	0.26	B 0.39	0.16	mg/Kg	09/14/13	LK	SW6010
Cobalt	3.33	0.39	0.16	mg/Kg	09/14/13	LK	SW6010
Chromium	11.6	0.39	0.16	mg/Kg	09/14/13	LK	SW6010
Copper	9.31	0.39	0.31	mg/kg	09/14/13	LK	SW6010
Iron	10200	39	39	mg/Kg	09/14/13	LK	SW6010
Mercury	< 0.07	0.07	0.04	mg/Kg	09/17/13	LK	SW-7471
Potassium	489	N 8	3.0	mg/Kg	09/14/13	LK	SW6010
Magnesium	1110	3.9	0.23	mg/Kg	09/14/13	LK	SW6010
Manganese	92.4	N 0.39	0.16	mg/Kg	09/14/13	LK	SW6010
Sodium	73	N 8	3.4	mg/Kg	09/14/13	LK	SW6010
Nickel	7.73	0.39	0.16	mg/Kg	09/14/13	LK	SW6010
Lead	2.7	0.8	0.23	mg/Kg	09/14/13	LK	SW6010
Antimony	< 2.0	2.0	0.78	mg/Kg	09/14/13	LK	SW6010
Selenium	< 1.6	1.6	1.3	mg/Kg	09/14/13	LK	SW6010
Thallium	< 1.6	1.6	1.6	mg/Kg	09/14/13	LK	SW6010
Vanadium	22.1	0.4	0.16	mg/Kg	09/14/13	LK	SW6010
Zinc	16.2	0.8	0.39	mg/Kg	09/14/13	LK	SW6010
Percent Solid	82			%	09/14/13	W	E160.3
Soil Extraction for PCB	Completed				09/13/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed				09/13/13	BB	SW3545
Soil Extraction for SVOA	Completed				09/13/13	JJ/FV	SW3545
Mercury Digestion	Completed				09/16/13	I/I	SW7471

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				09/13/13	Z/AG	SW846 - 3050
<b><u>Polychlorinated Biphenyls</u></b>							
PCB-1016	ND	40	40	ug/Kg	09/16/13	AW	SW 8082
PCB-1221	ND	40	40	ug/Kg	09/16/13	AW	SW 8082
PCB-1232	ND	40	40	ug/Kg	09/16/13	AW	SW 8082
PCB-1242	ND	40	40	ug/Kg	09/16/13	AW	SW 8082
PCB-1248	ND	40	40	ug/Kg	09/16/13	AW	SW 8082
PCB-1254	ND	40	40	ug/Kg	09/16/13	AW	SW 8082
PCB-1260	ND	40	40	ug/Kg	09/16/13	AW	SW 8082
PCB-1262	ND	40	40	ug/Kg	09/16/13	AW	SW 8082
PCB-1268	ND	40	40	ug/Kg	09/16/13	AW	SW 8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	48			%	09/16/13	AW	30 - 150 %
% TCMX	35			%	09/16/13	AW	30 - 150 %
<b><u>Pesticides - Soil</u></b>							
4,4' -DDD	ND	2.9	2.9	ug/Kg	09/16/13	MH	SW8081
4,4' -DDE	ND	2.9	2.9	ug/Kg	09/16/13	MH	SW8081
4,4' -DDT	ND	2.9	2.9	ug/Kg	09/16/13	MH	SW8081
a-BHC	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
a-Chlordane	ND	4.0	4.0	ug/Kg	09/16/13	MH	SW8081
Aldrin	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
b-BHC	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
Chlordane	ND	24	24	ug/Kg	09/16/13	MH	SW8081
d-BHC	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
Dieldrin	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
Endosulfan I	ND	4.0	4.0	ug/Kg	09/16/13	MH	SW8081
Endosulfan II	ND	4.0	4.0	ug/Kg	09/16/13	MH	SW8081
Endosulfan sulfate	ND	4.0	4.0	ug/Kg	09/16/13	MH	SW8081
Endrin	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
Endrin aldehyde	ND	4.0	4.0	ug/Kg	09/16/13	MH	SW8081
Endrin ketone	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
g-BHC	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
g-Chlordane	ND	4.0	4.0	ug/Kg	09/16/13	MH	SW8081
Heptachlor	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
Heptachlor epoxide	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
Methoxychlor	ND	8.1	8.1	ug/Kg	09/16/13	MH	SW8081
Toxaphene	ND	39	39	ug/Kg	09/16/13	MH	SW8081
<b><u>QA/QC Surrogates</u></b>							
% DCBP	44			%	09/16/13	MH	30 - 150 %
% TCMX	46			%	09/16/13	MH	30 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	6.1	1.0	ug/Kg	09/17/13	HM	SW8260
1,1,1-Trichloroethane	ND	6.1	1.2	ug/Kg	09/17/13	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	6.1	0.87	ug/Kg	09/17/13	HM	SW8260
1,1,2-Trichloroethane	ND	6.1	0.60	ug/Kg	09/17/13	HM	SW8260
1,1-Dichloroethane	ND	6.1	1.2	ug/Kg	09/17/13	HM	SW8260
1,1-Dichloroethene	ND	6.1	1.3	ug/Kg	09/17/13	HM	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	6.1	1.2	ug/Kg	09/17/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	6.1	1.2	ug/Kg	09/17/13	HM	SW8260	
1,2,3-Trichloropropane	ND	6.1	0.87	ug/Kg	09/17/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	6.1	1.2	ug/Kg	09/17/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	6.1	0.88	ug/Kg	09/17/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	6.1	1.6	ug/Kg	09/17/13	HM	SW8260	
1,2-Dibromoethane	ND	6.1	1.6	ug/Kg	09/17/13	HM	SW8260	
1,2-Dichlorobenzene	ND	6.1	0.67	ug/Kg	09/17/13	HM	SW8260	
1,2-Dichloroethane	ND	6.1	0.54	ug/Kg	09/17/13	HM	SW8260	
1,2-Dichloropropane	ND	6.1	0.87	ug/Kg	09/17/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	6.1	0.80	ug/Kg	09/17/13	HM	SW8260	
1,3-Dichlorobenzene	ND	6.1	0.90	ug/Kg	09/17/13	HM	SW8260	
1,3-Dichloropropane	ND	6.1	0.65	ug/Kg	09/17/13	HM	SW8260	
1,4-Dichlorobenzene	ND	6.1	0.96	ug/Kg	09/17/13	HM	SW8260	
2,2-Dichloropropane	ND	6.1	1.0	ug/Kg	09/17/13	HM	SW8260	
2-Chlorotoluene	ND	6.1	0.98	ug/Kg	09/17/13	HM	SW8260	
2-Hexanone	ND	30	2.7	ug/Kg	09/17/13	HM	SW8260	
2-Isopropyltoluene	ND	6.1	0.84	ug/Kg	09/17/13	HM	SW8260	
4-Chlorotoluene	ND	6.1	0.71	ug/Kg	09/17/13	HM	SW8260	
4-Methyl-2-pentanone	ND	30	1.5	ug/Kg	09/17/13	HM	SW8260	
Acetone	ND	61	6.1	ug/Kg	09/17/13	HM	SW8260	
Acrylonitrile	ND	12	3.4	ug/Kg	09/17/13	HM	SW8260	
Benzene	ND	6.1	1.2	ug/Kg	09/17/13	HM	SW8260	
Bromobenzene	ND	6.1	0.79	ug/Kg	09/17/13	HM	SW8260	
Bromochloromethane	ND	6.1	0.89	ug/Kg	09/17/13	HM	SW8260	
Bromodichloromethane	ND	6.1	0.76	ug/Kg	09/17/13	HM	SW8260	
Bromoform	ND	6.1	0.85	ug/Kg	09/17/13	HM	SW8260	
Bromomethane	ND	6.1	4.7	ug/Kg	09/17/13	HM	SW8260	
Carbon Disulfide	ND	6.1	0.99	ug/Kg	09/17/13	HM	SW8260	
Carbon tetrachloride	ND	6.1	0.71	ug/Kg	09/17/13	HM	SW8260	
Chlorobenzene	ND	6.1	0.90	ug/Kg	09/17/13	HM	SW8260	
Chloroethane	ND	6.1	1.4	ug/Kg	09/17/13	HM	SW8260	
Chloroform	ND	6.1	1.1	ug/Kg	09/17/13	HM	SW8260	
Chloromethane	ND	6.1	3.2	ug/Kg	09/17/13	HM	SW8260	
cis-1,2-Dichloroethene	1.5	J	6.1	1.3	ug/Kg	09/17/13	HM	SW8260
cis-1,3-Dichloropropene	ND		6.1	0.66	ug/Kg	09/17/13	HM	SW8260
Dibromochloromethane	ND		6.1	0.68	ug/Kg	09/17/13	HM	SW8260
Dibromomethane	ND		6.1	0.77	ug/Kg	09/17/13	HM	SW8260
Dichlorodifluoromethane	ND		6.1	1.6	ug/Kg	09/17/13	HM	SW8260
Ethylbenzene	ND		6.1	1.1	ug/Kg	09/17/13	HM	SW8260
Hexachlorobutadiene	ND		6.1	1.3	ug/Kg	09/17/13	HM	SW8260
Isopropylbenzene	ND		6.1	1.2	ug/Kg	09/17/13	HM	SW8260
m&p-Xylene	ND		6.1	2.4	ug/Kg	09/17/13	HM	SW8260
Methyl Ethyl Ketone	ND		37	5.3	ug/Kg	09/17/13	HM	SW8260
Methyl t-butyl ether (MTBE)	ND		12	1.7	ug/Kg	09/17/13	HM	SW8260
Methylene chloride	1.5	JS	6.1	1.0	ug/Kg	09/17/13	HM	SW8260
Naphthalene	ND		6.1	1.6	ug/Kg	09/17/13	HM	SW8260
n-Butylbenzene	ND		6.1	1.1	ug/Kg	09/17/13	HM	SW8260
n-Propylbenzene	ND		6.1	1.1	ug/Kg	09/17/13	HM	SW8260
o-Xylene	ND		6.1	2.3	ug/Kg	09/17/13	HM	SW8260

1

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
p-Isopropyltoluene	ND	6.1	0.88	ug/Kg	09/17/13	HM	SW8260
sec-Butylbenzene	ND	6.1	1.1	ug/Kg	09/17/13	HM	SW8260
Styrene	ND	6.1	1.8	ug/Kg	09/17/13	HM	SW8260
tert-Butylbenzene	ND	6.1	0.98	ug/Kg	09/17/13	HM	SW8260
Tetrachloroethene	ND	6.1	1.3	ug/Kg	09/17/13	HM	SW8260
Tetrahydrofuran (THF)	ND	12	5.5	ug/Kg	09/17/13	HM	SW8260
Toluene	ND	6.1	0.96	ug/Kg	09/17/13	HM	SW8260
trans-1,2-Dichloroethene	ND	6.1	1.2	ug/Kg	09/17/13	HM	SW8260
trans-1,3-Dichloropropene	ND	6.1	1.2	ug/Kg	09/17/13	HM	SW8260
trans-1,4-dichloro-2-butene	ND	12	11	ug/Kg	09/17/13	HM	SW8260
Trichloroethene	ND	6.1	1.3	ug/Kg	09/17/13	HM	SW8260
Trichlorofluoromethane	ND	6.1	1.4	ug/Kg	09/17/13	HM	SW8260
Trichlorotrifluoroethane	ND	6.1	0.95	ug/Kg	09/17/13	HM	SW8260
Vinyl chloride	ND	6.1	2.0	ug/Kg	09/17/13	HM	SW8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	99			%	09/17/13	HM	70 - 121 %
% Bromofluorobenzene	97			%	09/17/13	HM	59 - 113 %
% Dibromofluoromethane	99			%	09/17/13	HM	70 - 130 %
% Toluene-d8	96			%	09/17/13	HM	84 - 138 %
<b><u>Semivolatiles</u></b>							
1,2,4,5-Tetrachlorobenzene	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
1,2-Dichlorobenzene	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
1,3-Dichlorobenzene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
1,4-Dichlorobenzene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	280	220	ug/Kg	09/14/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
2,4-Dichlorophenol	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
2,4-Dimethylphenol	ND	280	98	ug/Kg	09/14/13	DD	SW 8270
2,4-Dinitrophenol	ND	2000	280	ug/Kg	09/14/13	DD	SW 8270
2,4-Dinitrotoluene	ND	280	160	ug/Kg	09/14/13	DD	SW 8270
2,6-Dinitrotoluene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
2-Chloronaphthalene	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
2-Chlorophenol	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
2-Methylnaphthalene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	190	ug/Kg	09/14/13	DD	SW 8270
2-Nitroaniline	ND	2000	400	ug/Kg	09/14/13	DD	SW 8270
2-Nitrophenol	ND	280	250	ug/Kg	09/14/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	160	ug/Kg	09/14/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	790	190	ug/Kg	09/14/13	DD	SW 8270
3-Nitroaniline	ND	2000	860	ug/Kg	09/14/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	2000	420	ug/Kg	09/14/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
4-Chloroaniline	ND	790	180	ug/Kg	09/14/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
4-Nitroaniline	ND	2000	130	ug/Kg	09/14/13	DD	SW 8270
4-Nitrophenol	ND	2000	180	ug/Kg	09/14/13	DD	SW 8270

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Acenaphthene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Acenaphthylene	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
Acetophenone	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Aniline	ND	2000	800	ug/Kg	09/14/13	DD	SW 8270
Anthracene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Benz(a)anthracene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Benzidine	ND	790	230	ug/Kg	09/14/13	DD	SW 8270
Benzo(a)pyrene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Benzo(b)fluoranthene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Benzo(ghi)perylene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Benzo(k)fluoranthene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Benzoic acid	ND	2000	790	ug/Kg	09/14/13	DD	SW 8270 10
Benzyl butyl phthalate	ND	280	100	ug/Kg	09/14/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	280	110	ug/Kg	09/14/13	DD	SW 8270 1
Bis(2-ethylhexyl)phthalate	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
Carbazole	ND	2000	300	ug/Kg	09/14/13	DD	SW 8270
Chrysene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Dibenzofuran	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Diethyl phthalate	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Dimethylphthalate	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Di-n-butylphthalate	ND	280	100	ug/Kg	09/14/13	DD	SW 8270
Di-n-octylphthalate	ND	280	100	ug/Kg	09/14/13	DD	SW 8270
Fluoranthene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Fluorene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Hexachlorobenzene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Hexachlorobutadiene	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Hexachloroethane	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Isophorone	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
Naphthalene	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
Nitrobenzene	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
N-Nitrosodimethylamine	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	280	150	ug/Kg	09/14/13	DD	SW 8270
Pentachloronitrobenzene	ND	280	150	ug/Kg	09/14/13	DD	SW 8270
Pentachlorophenol	ND	280	150	ug/Kg	09/14/13	DD	SW 8270
Phenanthrene	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
Phenol	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Pyrene	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
Pyridine	ND	280	97	ug/Kg	09/14/13	DD	SW 8270
<b>QA/QC Surrogates</b>							
% 2,4,6-Tribromophenol	91			%	09/14/13	DD	19 - 122 %
% 2-Fluorobiphenyl	81			%	09/14/13	DD	30 - 115 %
% 2-Fluorophenol	81			%	09/14/13	DD	25 - 121 %
% Nitrobenzene-d5	82			%	09/14/13	DD	23 - 120 %
% Phenol-d5	84			%	09/14/13	DD	24 - 113 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Terphenyl-d14	90			%	09/14/13	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
10 = This parameter is not certified by NY NELAC for this matrix.  
B = Present in blank, no bias suspected.

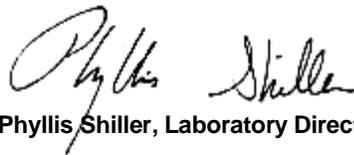
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**September 20, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 September 20, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 09/12/13                      0:00  
 09/13/13                      15:55

Laboratory Data

SDG ID: GBF39123  
 Phoenix ID: BF39125

Project ID: 82 THROOP AVE  
 Client ID: EP 5

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	0.23	mg/Kg	09/14/13	LK	SW6010
Aluminum	3850	38	7.5	mg/Kg	09/14/13	LK	SW6010
Arsenic	1.1	0.8	0.75	mg/Kg	09/14/13	LK	SW6010
Barium	20.1	0.8	0.15	mg/Kg	09/14/13	LK	SW6010
Beryllium	0.29	B 0.30	0.15	mg/Kg	09/14/13	LK	SW6010
Calcium	838	3.8	3.5	mg/Kg	09/14/13	LK	SW6010
Cadmium	0.15	B 0.38	0.15	mg/Kg	09/14/13	LK	SW6010
Cobalt	3.36	0.38	0.15	mg/Kg	09/14/13	LK	SW6010
Chromium	10.7	0.38	0.15	mg/Kg	09/14/13	LK	SW6010
Copper	7.54	0.38	0.30	mg/kg	09/14/13	LK	SW6010
Iron	6080	38	38	mg/Kg	09/14/13	LK	SW6010
Mercury	< 0.08	0.08	0.05	mg/Kg	09/17/13	LK	SW-7471
Potassium	526	N 8	2.9	mg/Kg	09/14/13	LK	SW6010
Magnesium	1100	3.8	0.23	mg/Kg	09/14/13	LK	SW6010
Manganese	57.0	N 0.38	0.15	mg/Kg	09/14/13	LK	SW6010
Sodium	58	N 8	3.2	mg/Kg	09/14/13	LK	SW6010
Nickel	5.85	0.38	0.15	mg/Kg	09/14/13	LK	SW6010
Lead	3.1	0.8	0.23	mg/Kg	09/14/13	LK	SW6010
Antimony	< 1.9	1.9	0.75	mg/Kg	09/14/13	LK	SW6010
Selenium	< 1.5	1.5	1.3	mg/Kg	09/14/13	LK	SW6010
Thallium	< 1.5	1.5	1.5	mg/Kg	09/14/13	LK	SW6010
Vanadium	16.6	0.4	0.15	mg/Kg	09/14/13	LK	SW6010
Zinc	13.9	0.8	0.38	mg/Kg	09/14/13	LK	SW6010
Percent Solid	81			%	09/14/13	W	E160.3
Soil Extraction for PCB	Completed				09/13/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed				09/13/13	BB	SW3545
Soil Extraction for SVOA	Completed				09/13/13	JJ/FV	SW3545
Mercury Digestion	Completed				09/16/13	I/I	SW7471

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				09/13/13	Z/AG	SW846 - 3050
<b><u>Polychlorinated Biphenyls</u></b>							
PCB-1016	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1221	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1232	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1242	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1248	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1254	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1260	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1262	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1268	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	98			%	09/16/13	AW	30 - 150 %
% TCMX	78			%	09/16/13	AW	30 - 150 %
<b><u>Pesticides - Soil</u></b>							
4,4' -DDD	ND	2.9	2.9	ug/Kg	09/16/13	MH	SW8081
4,4' -DDE	ND	2.9	2.9	ug/Kg	09/16/13	MH	SW8081
4,4' -DDT	ND	2.9	2.9	ug/Kg	09/16/13	MH	SW8081
a-BHC	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
a-Chlordane	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Aldrin	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
b-BHC	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
Chlordane	ND	24	24	ug/Kg	09/16/13	MH	SW8081
d-BHC	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
Dieldrin	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
Endosulfan I	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Endosulfan II	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Endosulfan sulfate	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Endrin	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
Endrin aldehyde	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Endrin ketone	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
g-BHC	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
g-Chlordane	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Heptachlor	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
Heptachlor epoxide	ND	2.0	2.0	ug/Kg	09/16/13	MH	SW8081
Methoxychlor	ND	8.1	8.1	ug/Kg	09/16/13	MH	SW8081
Toxaphene	ND	39	39	ug/Kg	09/16/13	MH	SW8081
<b><u>QA/QC Surrogates</u></b>							
% DCBP	95			%	09/16/13	MH	30 - 150 %
% TCMX	76			%	09/16/13	MH	30 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	6.2	1.0	ug/Kg	09/18/13	HM	SW8260
1,1,1-Trichloroethane	ND	6.2	1.2	ug/Kg	09/18/13	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	6.2	0.88	ug/Kg	09/18/13	HM	SW8260
1,1,2-Trichloroethane	ND	6.2	0.60	ug/Kg	09/18/13	HM	SW8260
1,1-Dichloroethane	ND	6.2	1.2	ug/Kg	09/18/13	HM	SW8260
1,1-Dichloroethene	ND	6.2	1.3	ug/Kg	09/18/13	HM	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,1-Dichloropropene	ND	6.2	1.2	ug/Kg	09/18/13	HM	SW8260
1,2,3-Trichlorobenzene	ND	6.2	1.2	ug/Kg	09/18/13	HM	SW8260
1,2,3-Trichloropropane	ND	6.2	0.88	ug/Kg	09/18/13	HM	SW8260
1,2,4-Trichlorobenzene	ND	6.2	1.2	ug/Kg	09/18/13	HM	SW8260
1,2,4-Trimethylbenzene	ND	6.2	0.89	ug/Kg	09/18/13	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	6.2	1.7	ug/Kg	09/18/13	HM	SW8260
1,2-Dibromoethane	ND	6.2	1.6	ug/Kg	09/18/13	HM	SW8260
1,2-Dichlorobenzene	ND	6.2	0.68	ug/Kg	09/18/13	HM	SW8260
1,2-Dichloroethane	ND	6.2	0.54	ug/Kg	09/18/13	HM	SW8260
1,2-Dichloropropane	ND	6.2	0.88	ug/Kg	09/18/13	HM	SW8260
1,3,5-Trimethylbenzene	ND	6.2	0.81	ug/Kg	09/18/13	HM	SW8260
1,3-Dichlorobenzene	ND	6.2	0.91	ug/Kg	09/18/13	HM	SW8260
1,3-Dichloropropane	ND	6.2	0.65	ug/Kg	09/18/13	HM	SW8260
1,4-Dichlorobenzene	ND	6.2	0.98	ug/Kg	09/18/13	HM	SW8260
2,2-Dichloropropane	ND	6.2	1.0	ug/Kg	09/18/13	HM	SW8260
2-Chlorotoluene	ND	6.2	0.99	ug/Kg	09/18/13	HM	SW8260
2-Hexanone	ND	31	2.8	ug/Kg	09/18/13	HM	SW8260
2-Isopropyltoluene	ND	6.2	0.85	ug/Kg	09/18/13	HM	SW8260
4-Chlorotoluene	ND	6.2	0.72	ug/Kg	09/18/13	HM	SW8260
4-Methyl-2-pentanone	ND	31	1.5	ug/Kg	09/18/13	HM	SW8260
Acetone	9.0	J 62	6.1	ug/Kg	09/18/13	HM	SW8260
Acrylonitrile	ND	12	3.5	ug/Kg	09/18/13	HM	SW8260
Benzene	ND	6.2	1.2	ug/Kg	09/18/13	HM	SW8260
Bromobenzene	ND	6.2	0.80	ug/Kg	09/18/13	HM	SW8260
Bromochloromethane	ND	6.2	0.90	ug/Kg	09/18/13	HM	SW8260
Bromodichloromethane	ND	6.2	0.77	ug/Kg	09/18/13	HM	SW8260
Bromoform	ND	6.2	0.86	ug/Kg	09/18/13	HM	SW8260
Bromomethane	ND	6.2	4.8	ug/Kg	09/18/13	HM	SW8260
Carbon Disulfide	ND	6.2	1.0	ug/Kg	09/18/13	HM	SW8260
Carbon tetrachloride	ND	6.2	0.72	ug/Kg	09/18/13	HM	SW8260
Chlorobenzene	ND	6.2	0.91	ug/Kg	09/18/13	HM	SW8260
Chloroethane	ND	6.2	1.4	ug/Kg	09/18/13	HM	SW8260
Chloroform	ND	6.2	1.1	ug/Kg	09/18/13	HM	SW8260
Chloromethane	ND	6.2	3.2	ug/Kg	09/18/13	HM	SW8260
cis-1,2-Dichloroethene	ND	6.2	1.3	ug/Kg	09/18/13	HM	SW8260
cis-1,3-Dichloropropene	ND	6.2	0.67	ug/Kg	09/18/13	HM	SW8260
Dibromochloromethane	ND	6.2	0.69	ug/Kg	09/18/13	HM	SW8260
Dibromomethane	ND	6.2	0.78	ug/Kg	09/18/13	HM	SW8260
Dichlorodifluoromethane	ND	6.2	1.6	ug/Kg	09/18/13	HM	SW8260
Ethylbenzene	ND	6.2	1.1	ug/Kg	09/18/13	HM	SW8260
Hexachlorobutadiene	ND	6.2	1.3	ug/Kg	09/18/13	HM	SW8260
Isopropylbenzene	ND	6.2	1.2	ug/Kg	09/18/13	HM	SW8260
m&p-Xylene	ND	6.2	2.4	ug/Kg	09/18/13	HM	SW8260
Methyl Ethyl Ketone	ND	37	5.4	ug/Kg	09/18/13	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	12	1.7	ug/Kg	09/18/13	HM	SW8260
Methylene chloride	3.1	J 6.2	1.0	ug/Kg	09/18/13	HM	SW8260
Naphthalene	ND	6.2	1.7	ug/Kg	09/18/13	HM	SW8260
n-Butylbenzene	ND	6.2	1.1	ug/Kg	09/18/13	HM	SW8260
n-Propylbenzene	ND	6.2	1.1	ug/Kg	09/18/13	HM	SW8260
o-Xylene	ND	6.2	2.4	ug/Kg	09/18/13	HM	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
p-Isopropyltoluene	ND	6.2	0.89	ug/Kg	09/18/13	HM	SW8260
sec-Butylbenzene	ND	6.2	1.2	ug/Kg	09/18/13	HM	SW8260
Styrene	ND	6.2	1.8	ug/Kg	09/18/13	HM	SW8260
tert-Butylbenzene	ND	6.2	0.99	ug/Kg	09/18/13	HM	SW8260
Tetrachloroethene	ND	6.2	1.3	ug/Kg	09/18/13	HM	SW8260
Tetrahydrofuran (THF)	ND	12	5.6	ug/Kg	09/18/13	HM	SW8260
Toluene	ND	6.2	0.98	ug/Kg	09/18/13	HM	SW8260
trans-1,2-Dichloroethene	ND	6.2	1.2	ug/Kg	09/18/13	HM	SW8260
trans-1,3-Dichloropropene	ND	6.2	1.3	ug/Kg	09/18/13	HM	SW8260
trans-1,4-dichloro-2-butene	ND	12	11	ug/Kg	09/18/13	HM	SW8260
Trichloroethene	ND	6.2	1.3	ug/Kg	09/18/13	HM	SW8260
Trichlorofluoromethane	ND	6.2	1.4	ug/Kg	09/18/13	HM	SW8260
Trichlorotrifluoroethane	ND	6.2	0.96	ug/Kg	09/18/13	HM	SW8260
Vinyl chloride	ND	6.2	2.0	ug/Kg	09/18/13	HM	SW8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	99			%	09/18/13	HM	70 - 121 %
% Bromofluorobenzene	96			%	09/18/13	HM	59 - 113 %
% Dibromofluoromethane	99			%	09/18/13	HM	70 - 130 %
% Toluene-d8	95			%	09/18/13	HM	84 - 138 %
<b><u>Semivolatiles</u></b>							
1,2,4,5-Tetrachlorobenzene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
1,2-Dichlorobenzene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
1,3-Dichlorobenzene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
1,4-Dichlorobenzene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	290	230	ug/Kg	09/14/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
2,4-Dichlorophenol	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
2,4-Dimethylphenol	ND	290	100	ug/Kg	09/14/13	DD	SW 8270
2,4-Dinitrophenol	ND	2100	290	ug/Kg	09/14/13	DD	SW 8270
2,4-Dinitrotoluene	ND	290	160	ug/Kg	09/14/13	DD	SW 8270
2,6-Dinitrotoluene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
2-Chloronaphthalene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
2-Chlorophenol	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
2-Methylnaphthalene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	190	ug/Kg	09/14/13	DD	SW 8270
2-Nitroaniline	ND	2100	410	ug/Kg	09/14/13	DD	SW 8270
2-Nitrophenol	ND	290	260	ug/Kg	09/14/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	290	160	ug/Kg	09/14/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	820	190	ug/Kg	09/14/13	DD	SW 8270
3-Nitroaniline	ND	2100	890	ug/Kg	09/14/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	2100	440	ug/Kg	09/14/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
4-Chloroaniline	ND	820	190	ug/Kg	09/14/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
4-Nitroaniline	ND	2100	140	ug/Kg	09/14/13	DD	SW 8270
4-Nitrophenol	ND	2100	190	ug/Kg	09/14/13	DD	SW 8270

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Acenaphthene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Acenaphthylene	ND	290	110	ug/Kg	09/14/13	DD	SW 8270
Acetophenone	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Aniline	ND	2100	830	ug/Kg	09/14/13	DD	SW 8270
Anthracene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Benz(a)anthracene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Benzidine	ND	820	240	ug/Kg	09/14/13	DD	SW 8270
Benzo(a)pyrene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Benzo(b)fluoranthene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Benzo(ghi)perylene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Benzo(k)fluoranthene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Benzoic acid	ND	2100	820	ug/Kg	09/14/13	DD	SW 8270 10
Benzyl butyl phthalate	ND	290	110	ug/Kg	09/14/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	290	110	ug/Kg	09/14/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	290	110	ug/Kg	09/14/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	290	110	ug/Kg	09/14/13	DD	SW 8270 1
Bis(2-ethylhexyl)phthalate	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Carbazole	ND	2100	310	ug/Kg	09/14/13	DD	SW 8270
Chrysene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Dibenzofuran	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Diethyl phthalate	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Dimethylphthalate	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Di-n-butylphthalate	ND	290	110	ug/Kg	09/14/13	DD	SW 8270
Di-n-octylphthalate	ND	290	110	ug/Kg	09/14/13	DD	SW 8270
Fluoranthene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Fluorene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Hexachlorobenzene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Hexachlorobutadiene	ND	290	150	ug/Kg	09/14/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Hexachloroethane	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Isophorone	ND	290	110	ug/Kg	09/14/13	DD	SW 8270
Naphthalene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Nitrobenzene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
N-Nitrosodimethylamine	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	290	160	ug/Kg	09/14/13	DD	SW 8270
Pentachloronitrobenzene	ND	290	150	ug/Kg	09/14/13	DD	SW 8270
Pentachlorophenol	ND	290	160	ug/Kg	09/14/13	DD	SW 8270
Phenanthrene	ND	290	120	ug/Kg	09/14/13	DD	SW 8270
Phenol	ND	290	130	ug/Kg	09/14/13	DD	SW 8270
Pyrene	ND	290	140	ug/Kg	09/14/13	DD	SW 8270
Pyridine	ND	290	100	ug/Kg	09/14/13	DD	SW 8270
<b><u>QA/QC Surrogates</u></b>							
% 2,4,6-Tribromophenol	94			%	09/14/13	DD	19 - 122 %
% 2-Fluorobiphenyl	87			%	09/14/13	DD	30 - 115 %
% 2-Fluorophenol	83			%	09/14/13	DD	25 - 121 %
% Nitrobenzene-d5	86			%	09/14/13	DD	23 - 120 %
% Phenol-d5	86			%	09/14/13	DD	24 - 113 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Terphenyl-d14	103			%	09/14/13	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
10 = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**September 20, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

September 20, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

### Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

### Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date: 09/12/13  
 09/13/13  
 Time: 0:00  
 15:55

## Laboratory Data

SDG ID: GBF39123  
 Phoenix ID: BF39126

Project ID: 82 THROOP AVE  
 Client ID: HI TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Percent Solid	100	1		%	09/12/13		E160.3

### Volatiles

1,1,1,2-Tetrachloroethane	ND	250	41	ug/Kg	09/17/13	HM	SW8260
1,1,1-Trichloroethane	ND	250	50	ug/Kg	09/17/13	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	250	36	ug/Kg	09/17/13	HM	SW8260
1,1,2-Trichloroethane	ND	250	25	ug/Kg	09/17/13	HM	SW8260
1,1-Dichloroethane	ND	250	50	ug/Kg	09/17/13	HM	SW8260
1,1-Dichloroethene	ND	250	55	ug/Kg	09/17/13	HM	SW8260
1,1-Dichloropropene	ND	250	49	ug/Kg	09/17/13	HM	SW8260
1,2,3-Trichlorobenzene	ND	250	50	ug/Kg	09/17/13	HM	SW8260
1,2,3-Trichloropropane	ND	250	36	ug/Kg	09/17/13	HM	SW8260
1,2,4-Trichlorobenzene	ND	250	50	ug/Kg	09/17/13	HM	SW8260
1,2,4-Trimethylbenzene	ND	250	36	ug/Kg	09/17/13	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	250	67	ug/Kg	09/17/13	HM	SW8260
1,2-Dibromoethane	ND	250	67	ug/Kg	09/17/13	HM	SW8260
1,2-Dichlorobenzene	ND	250	28	ug/Kg	09/17/13	HM	SW8260
1,2-Dichloroethane	ND	250	22	ug/Kg	09/17/13	HM	SW8260
1,2-Dichloropropane	ND	250	36	ug/Kg	09/17/13	HM	SW8260
1,3,5-Trimethylbenzene	ND	250	33	ug/Kg	09/17/13	HM	SW8260
1,3-Dichlorobenzene	ND	250	37	ug/Kg	09/17/13	HM	SW8260
1,3-Dichloropropane	ND	250	27	ug/Kg	09/17/13	HM	SW8260
1,4-Dichlorobenzene	ND	250	40	ug/Kg	09/17/13	HM	SW8260
2,2-Dichloropropane	ND	250	42	ug/Kg	09/17/13	HM	SW8260
2-Chlorotoluene	ND	250	40	ug/Kg	09/17/13	HM	SW8260
2-Hexanone	ND	1300	110	ug/Kg	09/17/13	HM	SW8260
2-Isopropyltoluene	ND	250	35	ug/Kg	09/17/13	HM	SW8260
4-Chlorotoluene	ND	250	29	ug/Kg	09/17/13	HM	SW8260
4-Methyl-2-pentanone	ND	1300	60	ug/Kg	09/17/13	HM	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Acetone	ND	2500	250	ug/Kg	09/17/13	HM	SW8260
Acrylonitrile	ND	500	140	ug/Kg	09/17/13	HM	SW8260
Benzene	ND	250	50	ug/Kg	09/17/13	HM	SW8260
Bromobenzene	ND	250	33	ug/Kg	09/17/13	HM	SW8260
Bromochloromethane	ND	250	37	ug/Kg	09/17/13	HM	SW8260
Bromodichloromethane	ND	250	31	ug/Kg	09/17/13	HM	SW8260
Bromoform	ND	250	35	ug/Kg	09/17/13	HM	SW8260
Bromomethane	ND	250	190	ug/Kg	09/17/13	HM	SW8260
Carbon Disulfide	ND	250	41	ug/Kg	09/17/13	HM	SW8260
Carbon tetrachloride	ND	250	29	ug/Kg	09/17/13	HM	SW8260
Chlorobenzene	ND	250	37	ug/Kg	09/17/13	HM	SW8260
Chloroethane	ND	250	59	ug/Kg	09/17/13	HM	SW8260
Chloroform	ND	250	46	ug/Kg	09/17/13	HM	SW8260
Chloromethane	ND	250	130	ug/Kg	09/17/13	HM	SW8260
cis-1,2-Dichloroethene	ND	250	55	ug/Kg	09/17/13	HM	SW8260
cis-1,3-Dichloropropene	ND	250	27	ug/Kg	09/17/13	HM	SW8260
Dibromochloromethane	ND	250	28	ug/Kg	09/17/13	HM	SW8260
Dibromomethane	ND	250	32	ug/Kg	09/17/13	HM	SW8260
Dichlorodifluoromethane	ND	250	67	ug/Kg	09/17/13	HM	SW8260
Ethylbenzene	ND	250	46	ug/Kg	09/17/13	HM	SW8260
Hexachlorobutadiene	ND	250	53	ug/Kg	09/17/13	HM	SW8260
Isopropylbenzene	ND	250	48	ug/Kg	09/17/13	HM	SW8260
m&p-Xylene	ND	250	99	ug/Kg	09/17/13	HM	SW8260
Methyl Ethyl Ketone	ND	1500	220	ug/Kg	09/17/13	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	500	69	ug/Kg	09/17/13	HM	SW8260
Methylene chloride	54	J 250	41	ug/Kg	09/17/13	HM	SW8260
Naphthalene	ND	250	67	ug/Kg	09/17/13	HM	SW8260
n-Butylbenzene	ND	250	46	ug/Kg	09/17/13	HM	SW8260
n-Propylbenzene	ND	250	45	ug/Kg	09/17/13	HM	SW8260
o-Xylene	ND	250	96	ug/Kg	09/17/13	HM	SW8260
p-Isopropyltoluene	ND	250	36	ug/Kg	09/17/13	HM	SW8260
sec-Butylbenzene	ND	250	47	ug/Kg	09/17/13	HM	SW8260
Styrene	ND	250	72	ug/Kg	09/17/13	HM	SW8260
tert-Butylbenzene	ND	250	40	ug/Kg	09/17/13	HM	SW8260
Tetrachloroethene	ND	250	53	ug/Kg	09/17/13	HM	SW8260
Tetrahydrofuran (THF)	ND	500	230	ug/Kg	09/17/13	HM	SW8260
Toluene	ND	250	40	ug/Kg	09/17/13	HM	SW8260
trans-1,2-Dichloroethene	ND	250	50	ug/Kg	09/17/13	HM	SW8260
trans-1,3-Dichloropropene	ND	250	51	ug/Kg	09/17/13	HM	SW8260
trans-1,4-dichloro-2-butene	ND	500	460	ug/Kg	09/17/13	HM	SW8260
Trichloroethene	ND	250	53	ug/Kg	09/17/13	HM	SW8260
Trichlorofluoromethane	ND	250	56	ug/Kg	09/17/13	HM	SW8260
Trichlorotrifluoroethane	ND	250	39	ug/Kg	09/17/13	HM	SW8260
Vinyl chloride	ND	250	81	ug/Kg	09/17/13	HM	SW8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	96			%	09/17/13	HM	70 - 121 %
% Bromofluorobenzene	97			%	09/17/13	HM	59 - 113 %
% Dibromofluoromethane	93			%	09/17/13	HM	70 - 130 %
% Toluene-d8	97			%	09/17/13	HM	84 - 138 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
B = Present in blank, no bias suspected.

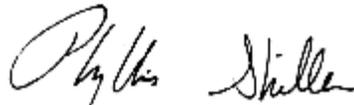
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

**Comments:**

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**September 20, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**



Environmental Laboratories, Inc.  
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**Analysis Report**  
 September 20, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 09/12/13                      0:00  
 09/13/13                      15:55

Laboratory Data

SDG ID: GBF39123  
 Phoenix ID: BF39127

Project ID: 82 THROOP AVE  
 Client ID: LO TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Percent Solid	100	1		%	09/12/13		E160.3
Field Extraction	Completed				09/12/13		SW5035

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	0.82	ug/Kg	09/17/13	HM	SW8260
1,1,1-Trichloroethane	ND	5.0	1.0	ug/Kg	09/17/13	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	5.0	0.71	ug/Kg	09/17/13	HM	SW8260
1,1,2-Trichloroethane	ND	5.0	0.49	ug/Kg	09/17/13	HM	SW8260
1,1-Dichloroethane	ND	5.0	0.99	ug/Kg	09/17/13	HM	SW8260
1,1-Dichloroethene	ND	5.0	1.1	ug/Kg	09/17/13	HM	SW8260
1,1-Dichloropropene	ND	5.0	0.97	ug/Kg	09/17/13	HM	SW8260
1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/Kg	09/17/13	HM	SW8260
1,2,3-Trichloropropane	ND	5.0	0.71	ug/Kg	09/17/13	HM	SW8260
1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/Kg	09/17/13	HM	SW8260
1,2,4-Trimethylbenzene	ND	5.0	0.72	ug/Kg	09/17/13	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/Kg	09/17/13	HM	SW8260
1,2-Dibromoethane	ND	5.0	1.3	ug/Kg	09/17/13	HM	SW8260
1,2-Dichlorobenzene	ND	5.0	0.55	ug/Kg	09/17/13	HM	SW8260
1,2-Dichloroethane	ND	5.0	0.44	ug/Kg	09/17/13	HM	SW8260
1,2-Dichloropropane	ND	5.0	0.71	ug/Kg	09/17/13	HM	SW8260
1,3,5-Trimethylbenzene	ND	5.0	0.66	ug/Kg	09/17/13	HM	SW8260
1,3-Dichlorobenzene	ND	5.0	0.74	ug/Kg	09/17/13	HM	SW8260
1,3-Dichloropropane	ND	5.0	0.53	ug/Kg	09/17/13	HM	SW8260
1,4-Dichlorobenzene	ND	5.0	0.79	ug/Kg	09/17/13	HM	SW8260
2,2-Dichloropropane	ND	5.0	0.84	ug/Kg	09/17/13	HM	SW8260
2-Chlorotoluene	ND	5.0	0.80	ug/Kg	09/17/13	HM	SW8260
2-Hexanone	ND	25	2.3	ug/Kg	09/17/13	HM	SW8260
2-Isopropyltoluene	ND	5.0	0.69	ug/Kg	09/17/13	HM	SW8260
4-Chlorotoluene	ND	5.0	0.58	ug/Kg	09/17/13	HM	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	1.2	ug/Kg	09/17/13	HM	SW8260
Acetone	57	50	5.0	ug/Kg	09/17/13	HM	SW8260 B*
Acrylonitrile	ND	10	2.8	ug/Kg	09/17/13	HM	SW8260
Benzene	ND	5.0	0.99	ug/Kg	09/17/13	HM	SW8260
Bromobenzene	ND	5.0	0.65	ug/Kg	09/17/13	HM	SW8260
Bromochloromethane	ND	5.0	0.73	ug/Kg	09/17/13	HM	SW8260
Bromodichloromethane	ND	5.0	0.62	ug/Kg	09/17/13	HM	SW8260
Bromoform	ND	5.0	0.70	ug/Kg	09/17/13	HM	SW8260
Bromomethane	ND	5.0	3.9	ug/Kg	09/17/13	HM	SW8260
Carbon Disulfide	ND	5.0	0.81	ug/Kg	09/17/13	HM	SW8260
Carbon tetrachloride	ND	5.0	0.58	ug/Kg	09/17/13	HM	SW8260
Chlorobenzene	ND	5.0	0.74	ug/Kg	09/17/13	HM	SW8260
Chloroethane	ND	5.0	1.2	ug/Kg	09/17/13	HM	SW8260
Chloroform	ND	5.0	0.91	ug/Kg	09/17/13	HM	SW8260
Chloromethane	ND	5.0	2.6	ug/Kg	09/17/13	HM	SW8260
cis-1,2-Dichloroethene	ND	5.0	1.1	ug/Kg	09/17/13	HM	SW8260
cis-1,3-Dichloropropene	ND	5.0	0.54	ug/Kg	09/17/13	HM	SW8260
Dibromochloromethane	ND	5.0	0.56	ug/Kg	09/17/13	HM	SW8260
Dibromomethane	ND	5.0	0.63	ug/Kg	09/17/13	HM	SW8260
Dichlorodifluoromethane	ND	5.0	1.3	ug/Kg	09/17/13	HM	SW8260
Ethylbenzene	ND	5.0	0.91	ug/Kg	09/17/13	HM	SW8260
Hexachlorobutadiene	ND	5.0	1.1	ug/Kg	09/17/13	HM	SW8260
Isopropylbenzene	ND	5.0	0.96	ug/Kg	09/17/13	HM	SW8260
m&p-Xylene	ND	5.0	2.0	ug/Kg	09/17/13	HM	SW8260
Methyl Ethyl Ketone	ND	30	4.3	ug/Kg	09/17/13	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	10	1.4	ug/Kg	09/17/13	HM	SW8260
Methylene chloride	2.1	J 5.0	0.82	ug/Kg	09/17/13	HM	SW8260
Naphthalene	ND	5.0	1.3	ug/Kg	09/17/13	HM	SW8260
n-Butylbenzene	ND	5.0	0.91	ug/Kg	09/17/13	HM	SW8260
n-Propylbenzene	ND	5.0	0.90	ug/Kg	09/17/13	HM	SW8260
o-Xylene	ND	5.0	1.9	ug/Kg	09/17/13	HM	SW8260
p-Isopropyltoluene	ND	5.0	0.72	ug/Kg	09/17/13	HM	SW8260
sec-Butylbenzene	ND	5.0	0.94	ug/Kg	09/17/13	HM	SW8260
Styrene	ND	5.0	1.4	ug/Kg	09/17/13	HM	SW8260
tert-Butylbenzene	ND	5.0	0.80	ug/Kg	09/17/13	HM	SW8260
Tetrachloroethene	ND	5.0	1.1	ug/Kg	09/17/13	HM	SW8260
Tetrahydrofuran (THF)	ND	10	4.5	ug/Kg	09/17/13	HM	SW8260 1
Toluene	ND	5.0	0.79	ug/Kg	09/17/13	HM	SW8260
trans-1,2-Dichloroethene	ND	5.0	1.0	ug/Kg	09/17/13	HM	SW8260
trans-1,3-Dichloropropene	ND	5.0	1.0	ug/Kg	09/17/13	HM	SW8260
trans-1,4-dichloro-2-butene	ND	10	9.3	ug/Kg	09/17/13	HM	SW8260
Trichloroethene	ND	5.0	1.1	ug/Kg	09/17/13	HM	SW8260
Trichlorofluoromethane	ND	5.0	1.1	ug/Kg	09/17/13	HM	SW8260
Trichlorotrifluoroethane	ND	5.0	0.78	ug/Kg	09/17/13	HM	SW8260
Vinyl chloride	ND	5.0	1.6	ug/Kg	09/17/13	HM	SW8260
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	97			%	09/17/13	HM	70 - 121 %
% Bromofluorobenzene	95			%	09/17/13	HM	59 - 113 %
% Dibromofluoromethane	91			%	09/17/13	HM	70 - 130 %
% Toluene-d8	96			%	09/17/13	HM	84 - 138 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
B\* = Present in blank, a bias is possible.

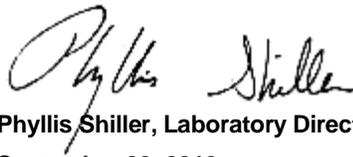
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

**Comments:**

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**September 20, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 September 20, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 09/12/13                      0:00  
 09/13/13                      15:55

Laboratory Data

SDG ID: GBF39123  
 Phoenix ID: BF39128

Project ID: 82 THROOP AVE  
 Client ID: DUPLICATE

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.43	0.43	0.26	mg/Kg	09/14/13	LK	SW6010
Aluminum	5160	43	8.7	mg/Kg	09/14/13	LK	SW6010
Arsenic	3.1	0.9	0.87	mg/Kg	09/14/13	LK	SW6010
Barium	11.1	0.9	0.17	mg/Kg	09/14/13	LK	SW6010
Beryllium	0.40	0.35	0.17	mg/Kg	09/14/13	LK	SW6010
Calcium	511	4.3	4.0	mg/Kg	09/14/13	LK	SW6010
Cadmium	0.36	B 0.43	0.17	mg/Kg	09/14/13	LK	SW6010
Cobalt	2.63	0.43	0.17	mg/Kg	09/14/13	LK	SW6010
Chromium	11.6	0.43	0.17	mg/Kg	09/14/13	LK	SW6010
Copper	19.0	0.43	0.35	mg/kg	09/14/13	LK	SW6010
Iron	15800	43	43	mg/Kg	09/14/13	LK	SW6010
Mercury	< 0.10	0.10	0.06	mg/Kg	09/17/13	LK	SW-7471
Potassium	442	N 9	3.4	mg/Kg	09/14/13	LK	SW6010
Magnesium	998	4.3	0.26	mg/Kg	09/14/13	LK	SW6010
Manganese	60.7	N 0.43	0.17	mg/Kg	09/14/13	LK	SW6010
Sodium	43	N 9	3.7	mg/Kg	09/14/13	LK	SW6010
Nickel	5.91	0.43	0.17	mg/Kg	09/14/13	LK	SW6010
Lead	3.4	0.9	0.26	mg/Kg	09/14/13	LK	SW6010
Antimony	1.0	B 2.2	0.87	mg/Kg	09/14/13	LK	SW6010
Selenium	< 1.7	1.7	1.5	mg/Kg	09/14/13	LK	SW6010
Thallium	< 1.7	1.7	1.7	mg/Kg	09/14/13	LK	SW6010
Vanadium	26.9	0.4	0.17	mg/Kg	09/14/13	LK	SW6010
Zinc	15.4	0.9	0.43	mg/Kg	09/14/13	LK	SW6010
Percent Solid	80			%	09/14/13	W	E160.3
Soil Extraction for PCB	Completed				09/13/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed				09/13/13	BB	SW3545
Soil Extraction for SVOA	Completed				09/13/13	JJ/FV	SW3545
Mercury Digestion	Completed				09/16/13	I/I	SW7471

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				09/13/13	Z/AG	SW846 - 3050
<b><u>Polychlorinated Biphenyls</u></b>							
PCB-1016	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1221	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1232	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1242	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1248	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1254	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1260	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1262	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
PCB-1268	ND	41	41	ug/Kg	09/16/13	AW	SW 8082
<b><u>QA/QC Surrogates</u></b>							
% DCBP	97			%	09/16/13	AW	30 - 150 %
% TCMX	71			%	09/16/13	AW	30 - 150 %
<b><u>Pesticides - Soil</u></b>							
4,4' -DDD	ND	3.0	3.0	ug/Kg	09/16/13	MH	SW8081
4,4' -DDE	ND	3.0	3.0	ug/Kg	09/16/13	MH	SW8081
4,4' -DDT	ND	3.0	3.0	ug/Kg	09/16/13	MH	SW8081
a-BHC	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
a-Chlordane	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Aldrin	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
b-BHC	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
Chlordane	ND	25	25	ug/Kg	09/16/13	MH	SW8081
d-BHC	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
Dieldrin	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
Endosulfan I	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Endosulfan II	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Endosulfan sulfate	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Endrin	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
Endrin aldehyde	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Endrin ketone	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
g-BHC	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
g-Chlordane	ND	4.1	4.1	ug/Kg	09/16/13	MH	SW8081
Heptachlor	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
Heptachlor epoxide	ND	2.1	2.1	ug/Kg	09/16/13	MH	SW8081
Methoxychlor	ND	8.3	8.3	ug/Kg	09/16/13	MH	SW8081
Toxaphene	ND	40	40	ug/Kg	09/16/13	MH	SW8081
<b><u>QA/QC Surrogates</u></b>							
% DCBP	100			%	09/16/13	MH	30 - 150 %
% TCMX	76			%	09/16/13	MH	30 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	6.3	1.0	ug/Kg	09/18/13	HM	SW8260
1,1,1-Trichloroethane	ND	6.3	1.3	ug/Kg	09/18/13	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	6.3	0.90	ug/Kg	09/18/13	HM	SW8260
1,1,2-Trichloroethane	ND	6.3	0.62	ug/Kg	09/18/13	HM	SW8260
1,1-Dichloroethane	ND	6.3	1.2	ug/Kg	09/18/13	HM	SW8260
1,1-Dichloroethene	ND	6.3	1.4	ug/Kg	09/18/13	HM	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,1-Dichloropropene	ND	6.3	1.2	ug/Kg	09/18/13	HM	SW8260
1,2,3-Trichlorobenzene	ND	6.3	1.3	ug/Kg	09/18/13	HM	SW8260
1,2,3-Trichloropropane	ND	6.3	0.90	ug/Kg	09/18/13	HM	SW8260
1,2,4-Trichlorobenzene	ND	6.3	1.3	ug/Kg	09/18/13	HM	SW8260
1,2,4-Trimethylbenzene	ND	6.3	0.91	ug/Kg	09/18/13	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	6.3	1.7	ug/Kg	09/18/13	HM	SW8260
1,2-Dibromoethane	ND	6.3	1.7	ug/Kg	09/18/13	HM	SW8260
1,2-Dichlorobenzene	ND	6.3	0.69	ug/Kg	09/18/13	HM	SW8260
1,2-Dichloroethane	ND	6.3	0.56	ug/Kg	09/18/13	HM	SW8260
1,2-Dichloropropane	ND	6.3	0.90	ug/Kg	09/18/13	HM	SW8260
1,3,5-Trimethylbenzene	ND	6.3	0.83	ug/Kg	09/18/13	HM	SW8260
1,3-Dichlorobenzene	ND	6.3	0.93	ug/Kg	09/18/13	HM	SW8260
1,3-Dichloropropane	ND	6.3	0.67	ug/Kg	09/18/13	HM	SW8260
1,4-Dichlorobenzene	ND	6.3	1.0	ug/Kg	09/18/13	HM	SW8260
2,2-Dichloropropane	ND	6.3	1.1	ug/Kg	09/18/13	HM	SW8260
2-Chlorotoluene	ND	6.3	1.0	ug/Kg	09/18/13	HM	SW8260
2-Hexanone	ND	32	2.8	ug/Kg	09/18/13	HM	SW8260
2-Isopropyltoluene	ND	6.3	0.87	ug/Kg	09/18/13	HM	SW8260
4-Chlorotoluene	ND	6.3	0.73	ug/Kg	09/18/13	HM	SW8260
4-Methyl-2-pentanone	ND	32	1.5	ug/Kg	09/18/13	HM	SW8260
Acetone	ND	63	6.3	ug/Kg	09/18/13	HM	SW8260
Acrylonitrile	ND	13	3.5	ug/Kg	09/18/13	HM	SW8260
Benzene	ND	6.3	1.2	ug/Kg	09/18/13	HM	SW8260
Bromobenzene	ND	6.3	0.82	ug/Kg	09/18/13	HM	SW8260
Bromochloromethane	ND	6.3	0.92	ug/Kg	09/18/13	HM	SW8260
Bromodichloromethane	ND	6.3	0.78	ug/Kg	09/18/13	HM	SW8260
Bromoform	ND	6.3	0.88	ug/Kg	09/18/13	HM	SW8260
Bromomethane	ND	6.3	4.9	ug/Kg	09/18/13	HM	SW8260
Carbon Disulfide	ND	6.3	1.0	ug/Kg	09/18/13	HM	SW8260
Carbon tetrachloride	ND	6.3	0.73	ug/Kg	09/18/13	HM	SW8260
Chlorobenzene	ND	6.3	0.93	ug/Kg	09/18/13	HM	SW8260
Chloroethane	ND	6.3	1.5	ug/Kg	09/18/13	HM	SW8260
Chloroform	ND	6.3	1.1	ug/Kg	09/18/13	HM	SW8260
Chloromethane	ND	6.3	3.3	ug/Kg	09/18/13	HM	SW8260
cis-1,2-Dichloroethene	ND	6.3	1.4	ug/Kg	09/18/13	HM	SW8260
cis-1,3-Dichloropropene	ND	6.3	0.68	ug/Kg	09/18/13	HM	SW8260
Dibromochloromethane	ND	6.3	0.71	ug/Kg	09/18/13	HM	SW8260
Dibromomethane	ND	6.3	0.80	ug/Kg	09/18/13	HM	SW8260
Dichlorodifluoromethane	ND	6.3	1.7	ug/Kg	09/18/13	HM	SW8260
Ethylbenzene	ND	6.3	1.1	ug/Kg	09/18/13	HM	SW8260
Hexachlorobutadiene	ND	6.3	1.3	ug/Kg	09/18/13	HM	SW8260
Isopropylbenzene	ND	6.3	1.2	ug/Kg	09/18/13	HM	SW8260
m&p-Xylene	ND	6.3	2.5	ug/Kg	09/18/13	HM	SW8260
Methyl Ethyl Ketone	ND	38	5.5	ug/Kg	09/18/13	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	13	1.7	ug/Kg	09/18/13	HM	SW8260
Methylene chloride	1.6	J 6.3	1.0	ug/Kg	09/18/13	HM	SW8260
Naphthalene	ND	6.3	1.7	ug/Kg	09/18/13	HM	SW8260
n-Butylbenzene	ND	6.3	1.1	ug/Kg	09/18/13	HM	SW8260
n-Propylbenzene	ND	6.3	1.1	ug/Kg	09/18/13	HM	SW8260
o-Xylene	ND	6.3	2.4	ug/Kg	09/18/13	HM	SW8260

1

B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
p-Isopropyltoluene	ND	6.3	0.91	ug/Kg	09/18/13	HM	SW8260
sec-Butylbenzene	ND	6.3	1.2	ug/Kg	09/18/13	HM	SW8260
Styrene	ND	6.3	1.8	ug/Kg	09/18/13	HM	SW8260
tert-Butylbenzene	ND	6.3	1.0	ug/Kg	09/18/13	HM	SW8260
Tetrachloroethene	ND	6.3	1.3	ug/Kg	09/18/13	HM	SW8260
Tetrahydrofuran (THF)	ND	13	5.7	ug/Kg	09/18/13	HM	SW8260
Toluene	ND	6.3	1.0	ug/Kg	09/18/13	HM	SW8260
trans-1,2-Dichloroethene	ND	6.3	1.3	ug/Kg	09/18/13	HM	SW8260
trans-1,3-Dichloropropene	ND	6.3	1.3	ug/Kg	09/18/13	HM	SW8260
trans-1,4-dichloro-2-butene	ND	13	12	ug/Kg	09/18/13	HM	SW8260
Trichloroethene	ND	6.3	1.3	ug/Kg	09/18/13	HM	SW8260
Trichlorofluoromethane	ND	6.3	1.4	ug/Kg	09/18/13	HM	SW8260
Trichlorotrifluoroethane	ND	6.3	0.98	ug/Kg	09/18/13	HM	SW8260
Vinyl chloride	ND	6.3	2.0	ug/Kg	09/18/13	HM	SW8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	100			%	09/18/13	HM	70 - 121 %
% Bromofluorobenzene	95			%	09/18/13	HM	59 - 113 %
% Dibromofluoromethane	98			%	09/18/13	HM	70 - 130 %
% Toluene-d8	97			%	09/18/13	HM	84 - 138 %
<b><u>Semivolatiles</u></b>							
1,2,4,5-Tetrachlorobenzene	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
1,2-Dichlorobenzene	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
1,3-Dichlorobenzene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
1,4-Dichlorobenzene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	280	220	ug/Kg	09/14/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
2,4-Dichlorophenol	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
2,4-Dimethylphenol	ND	280	100	ug/Kg	09/14/13	DD	SW 8270
2,4-Dinitrophenol	ND	2000	280	ug/Kg	09/14/13	DD	SW 8270
2,4-Dinitrotoluene	ND	280	160	ug/Kg	09/14/13	DD	SW 8270
2,6-Dinitrotoluene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
2-Chloronaphthalene	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
2-Chlorophenol	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
2-Methylnaphthalene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	190	ug/Kg	09/14/13	DD	SW 8270
2-Nitroaniline	ND	2000	410	ug/Kg	09/14/13	DD	SW 8270
2-Nitrophenol	ND	280	260	ug/Kg	09/14/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	280	160	ug/Kg	09/14/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	810	190	ug/Kg	09/14/13	DD	SW 8270
3-Nitroaniline	ND	2000	880	ug/Kg	09/14/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	2000	440	ug/Kg	09/14/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
4-Chloroaniline	ND	810	190	ug/Kg	09/14/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
4-Nitroaniline	ND	2000	140	ug/Kg	09/14/13	DD	SW 8270
4-Nitrophenol	ND	2000	180	ug/Kg	09/14/13	DD	SW 8270

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Acenaphthene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Acenaphthylene	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
Acetophenone	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Aniline	ND	2000	820	ug/Kg	09/14/13	DD	SW 8270
Anthracene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Benz(a)anthracene	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
Benzidine	ND	810	240	ug/Kg	09/14/13	DD	SW 8270
Benzo(a)pyrene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Benzo(b)fluoranthene	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
Benzo(ghi)perylene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Benzo(k)fluoranthene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Benzoic acid	ND	2000	810	ug/Kg	09/14/13	DD	SW 8270 10
Benzyl butyl phthalate	ND	280	100	ug/Kg	09/14/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	280	110	ug/Kg	09/14/13	DD	SW 8270 1
Bis(2-ethylhexyl)phthalate	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Carbazole	ND	2000	310	ug/Kg	09/14/13	DD	SW 8270
Chrysene	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Dibenzofuran	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Diethyl phthalate	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Dimethylphthalate	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Di-n-butylphthalate	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
Di-n-octylphthalate	ND	280	100	ug/Kg	09/14/13	DD	SW 8270
Fluoranthene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Fluorene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Hexachlorobenzene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Hexachlorobutadiene	ND	280	150	ug/Kg	09/14/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Hexachloroethane	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Isophorone	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
Naphthalene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Nitrobenzene	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
N-Nitrosodimethylamine	ND	280	110	ug/Kg	09/14/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	280	160	ug/Kg	09/14/13	DD	SW 8270
Pentachloronitrobenzene	ND	280	150	ug/Kg	09/14/13	DD	SW 8270
Pentachlorophenol	ND	280	150	ug/Kg	09/14/13	DD	SW 8270
Phenanthrene	ND	280	120	ug/Kg	09/14/13	DD	SW 8270
Phenol	ND	280	130	ug/Kg	09/14/13	DD	SW 8270
Pyrene	ND	280	140	ug/Kg	09/14/13	DD	SW 8270
Pyridine	ND	280	100	ug/Kg	09/14/13	DD	SW 8270
<b>QA/QC Surrogates</b>							
% 2,4,6-Tribromophenol	91			%	09/14/13	DD	19 - 122 %
% 2-Fluorobiphenyl	84			%	09/14/13	DD	30 - 115 %
% 2-Fluorophenol	79			%	09/14/13	DD	25 - 121 %
% Nitrobenzene-d5	82			%	09/14/13	DD	23 - 120 %
% Phenol-d5	82			%	09/14/13	DD	24 - 113 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Terphenyl-d14	100			%	09/14/13	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
10 = This parameter is not certified by NY NELAC for this matrix.  
B = Present in blank, no bias suspected.

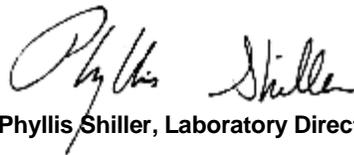
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
This report must not be reproduced except in full as defined by the attached chain of custody.



**Phyllis Shiller, Laboratory Director**

**September 20, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**

**Sample Criteria Exceedences Report**

Requested Criteria: 375, 375RRS, 375RS

**GBF39123 - EBC**

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF39123	\$8260-SMDPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	62	50	50	ug/Kg
BF39123	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	15.2	0.38	1	1	mg/Kg
BF39124	\$8260-SMDPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	61	50	50	ug/Kg
BF39124	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	11.6	0.39	1	1	mg/Kg
BF39125	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	10.7	0.38	1	1	mg/Kg
BF39126	\$8260-SMDPR	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	250	210	210	ug/Kg
BF39126	\$8260-SMDPR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg
BF39126	\$8260-SMDPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	2500	50	50	ug/Kg
BF39126	\$8260-SMDPR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	54	250	50	50	ug/Kg
BF39126	\$8260-SMDPR	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	190	190	ug/Kg
BF39126	\$8260-SMDPR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	120	120	ug/Kg
BF39126	\$8260-SMDPR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	60	60	ug/Kg
BF39126	\$8260-SMDPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg
BF39127	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	57	50	50	50	ug/Kg
BF39128	\$8260-SMDPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	63	50	50	ug/Kg
BF39128	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	11.6	0.43	1	1	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
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Tel. (860) 645-1102 Fax (860) 645-0823



# NY Temperature Narration

September 20, 2013

SDG I.D.: GBF39123

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The samples in this delivery group were received at 4°C.  
(Note acceptance criteria is above freezing up to 6°C)

Temp

**NY/NJ CHAIN OF CUSTODY RECORD**



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
 Client Services (860) 645-8726

Data Delivery:  
 Fax #  
 Email: CSOSIK@ebcincny.com

Customer: EBC Project P.O.: 82 Throop Ave  
 Address: 1808 Middle Country Rd Phone #: 631-504-6000  
Ridge, NY Invoice to: EBC Fax #: \_\_\_\_\_

Sampler's Signature: [Signature] Date: 9.12.13  
 Client Sample - Information - Identification  
 Matrix Code: DW=drinking water SL=sludge WW=wastewater S=soil/solid O=oil  
GW=groundwater A=air X=other

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
39123	EPI	S	9.12		11
39124	EP4	↓			11
39125	EP5	↓			11
39126	hi trip blank				
39127	lo trip blank				1
39128	Duplicate S				2
					11

Relinquished by: [Signature] Accepted by: [Signature]  
 Date: 9-13-13 Time: 12:30  
9-13-13 15:55

Turnaround:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 5 Days  
 10 Days  
 Other  
 \* SURCHARGE APPLIES

NJ Res. Criteria  
 Non-Res. Criteria  
 Impact to GW Soil  
 Cleanup Criteria  
 GW Criteria

NY TOGS GA GW  
 CP-51 Soil  
 NY375 Unrestricted Soil  
 NY375 Residential Soil  
 NY375 Restricted Non-Residential Soil

Data Format  
 Phoenix Std Report  
 Excel  
 PDF  
 GIS/Key  
 EQUIS  
 NJ Hazsite EDD  
 NY EZ EDD (ASP)  
 Other

Data Package  
 NJ Reduced Deliv.\*  
 NY Enhanced (ASP B)\*  
 Other

State where samples were collected: NY

Comments, Special Requirements or Regulations:



Friday, August 23, 2013

Attn: Mr. Charles B. Sosik, P.G.  
Environmental Business Consultants  
1808 Middle Country Rd  
Ridge NY 11961-2406

Project ID: 82 THROOP AVE., BROOKLYN  
Sample ID#s: BF25742 - BF25745

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



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**NY ANALYTICAL SERVICES PROTOCOL**

**Client:**

**Project: 82 THROOP AVE., BROOKLYN**

**Laboratory Project: GBF25742**



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# NY Analytical Services Protocol Format

August 23, 2013

SDG I.D.: GBF25742

82 THROOP AVE., BROOKLYN

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## SDG Comments

BF25742 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BF25743 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

## Methodology Summary

### **Metals**

ICP :

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 6010C.

Mercury:

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, 7471

### **NJ EPH**

NJDEP Environmental Laboratory Certification Programs EPH Method 10/08, Rev. 3.

### **Pesticides:**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8081B.

### **Polychlorinated Biphenyls (PCBs):**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8082A.

### **Semivolatile Organic Compounds**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8270D.

### **Volatile Organics**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update III, Method 8260B.

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# NY Analytical Services Protocol Format

August 23, 2013

SDG I.D.: GBF25742

82 THROOP AVE., BROOKLYN

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## Sample Id Cross Reference

Client Id	Lab Id	Matrix
EP2	BF25742	SOIL
EP3	BF25743	SOIL
TRIP BLANK HIGH	BF25744	SOIL
TRIP BLANK LOW	BF25745	SOIL

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## NY Analytical Services Protocol Format

August 23, 2013

SDG I.D.: GBF25742

82 THROOP AVE., BROOKLYN

### Laboratory Chronicle

The samples in this delivery group were received at 4°C.

Sample	Analysis	Collection Date	Extraction Date	Analysis Date	Analyst	Hold Time Met
BF25742	Aluminum	08/15/13	08/16/13	08/21/13	LK	Y
BF25742	Antimony	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Arsenic	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Barium	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Beryllium	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Cadmium	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Calcium	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Chromium	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Cobalt	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Copper	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Iron	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Lead	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Magnesium	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Manganese	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Mercury	08/15/13	08/19/13	08/19/13	RS	Y
BF25742	Nickel	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Pesticides - Soil	08/15/13	08/16/13	08/21/13	MH	Y
BF25742	Polychlorinated Biphenyls	08/15/13	08/16/13	08/19/13	AW	Y
BF25742	Potassium	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Selenium	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Semivolatiles	08/15/13	08/16/13	08/17/13	DD	Y
BF25742	Silver	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Sodium	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Thallium	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Vanadium	08/15/13	08/16/13	08/17/13	LK	Y
BF25742	Volatiles	08/15/13	08/19/13	08/19/13	R/J	Y
BF25742	Zinc	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Aluminum	08/15/13	08/16/13	08/21/13	LK	Y
BF25743	Antimony	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Arsenic	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Barium	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Beryllium	08/15/13	08/16/13	08/17/13	LK	Y



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## NY Analytical Services Protocol Format

August 23, 2013

SDG I.D.: GBF25742

**82 THROOP AVE., BROOKLYN**

BF25743	Cadmium	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Calcium	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Chromium	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Cobalt	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Copper	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Iron	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Lead	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Magnesium	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Manganese	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Mercury	08/15/13	08/19/13	08/19/13	RS	Y
BF25743	Nickel	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Pesticides - Soil	08/15/13	08/16/13	08/21/13	MH	Y
BF25743	Polychlorinated Biphenyls	08/15/13	08/16/13	08/19/13	AW	Y
BF25743	Potassium	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Selenium	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Semivolatiles	08/15/13	08/16/13	08/17/13	DD	Y
BF25743	Silver	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Sodium	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Thallium	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Vanadium	08/15/13	08/16/13	08/17/13	LK	Y
BF25743	Volatiles	08/15/13	08/19/13	08/19/13	R/J	Y
BF25743	Zinc	08/15/13	08/16/13	08/17/13	LK	Y
BF25744	Volatiles	08/15/13	08/19/13	08/19/13	R/J	Y
BF25745	Volatiles	08/15/13	08/19/13	08/19/13	R/J	Y



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# Analysis Report

August 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date: 08/15/13 12:15  
 08/16/13 15:22

## Laboratory Data

SDG ID: GBF25742  
 Phoenix ID: BF25742

Project ID: 82 THROOP AVE., BROOKLYN  
 Client ID: EP2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.40	0.40	0.24	mg/Kg	08/17/13	LK	SW6010
Aluminum	4060	40	8.0	mg/Kg	08/21/13	LK	SW6010
Arsenic	1.1	0.8	0.80	mg/Kg	08/17/13	LK	SW6010
Barium	12.2 N	0.8	0.16	mg/Kg	08/17/13	LK	SW6010
Beryllium	0.22 B	0.32	0.16	mg/Kg	08/17/13	LK	SW6010
Calcium	405	4.0	3.7	mg/Kg	08/17/13	LK	SW6010
Cadmium	< 0.40	0.40	0.16	mg/Kg	08/17/13	LK	SW6010
Cobalt	2.94	0.40	0.16	mg/Kg	08/17/13	LK	SW6010
Chromium	10.4	0.40	0.16	mg/Kg	08/17/13	LK	SW6010
Copper	8.94	0.40	0.32	mg/kg	08/17/13	LK	SW6010
Iron	7380	4.0	4.0	mg/Kg	08/17/13	LK	SW6010
Mercury	< 0.07	0.07	0.04	mg/Kg	08/19/13	RS	SW-7471
Potassium	361 N	8	3.1	mg/Kg	08/17/13	LK	SW6010
Magnesium	856	4.0	0.24	mg/Kg	08/17/13	LK	SW6010
Manganese	40.5 N	0.40	0.16	mg/Kg	08/17/13	LK	SW6010
Sodium	31 N	8	3.4	mg/Kg	08/17/13	LK	SW6010
Nickel	5.47	0.40	0.16	mg/Kg	08/17/13	LK	SW6010
Lead	2.4	0.8	0.24	mg/Kg	08/17/13	LK	SW6010
Antimony	< 2.0	2.0	0.80	mg/Kg	08/17/13	LK	SW6010
Selenium	< 1.6	1.6	1.4	mg/Kg	08/17/13	LK	SW6010
Thallium	< 1.6 *	1.6	1.6	mg/Kg	08/17/13	LK	SW6010
Vanadium	18.4	0.4	0.16	mg/Kg	08/17/13	LK	SW6010
Zinc	11.3	0.8	0.40	mg/Kg	08/17/13	LK	SW6010
Percent Solid	81			%	08/16/13	W	E160.3
Soil Extraction for PCB	Completed				08/16/13	BB	SW3545
Soil Extraction for Pesticide	Completed				08/16/13	BB/V	SW3545
Soil Extraction for SVOA	Completed				08/16/13	IJ/FV	SW3545
Mercury Digestion	Completed				08/19/13	X/X	SW7471

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				08/16/13	Z/AG	SW846 - 3050
Field Extraction	Completed				08/15/13		SW5035

### Polychlorinated Biphenyls

PCB-1016	ND	40	40	ug/Kg	08/19/13	AW	SW 8082
PCB-1221	ND	40	40	ug/Kg	08/19/13	AW	SW 8082
PCB-1232	ND	40	40	ug/Kg	08/19/13	AW	SW 8082
PCB-1242	ND	40	40	ug/Kg	08/19/13	AW	SW 8082
PCB-1248	ND	40	40	ug/Kg	08/19/13	AW	SW 8082
PCB-1254	ND	40	40	ug/Kg	08/19/13	AW	SW 8082
PCB-1260	ND	40	40	ug/Kg	08/19/13	AW	SW 8082
PCB-1262	ND	40	40	ug/Kg	08/19/13	AW	SW 8082
PCB-1268	ND	40	40	ug/Kg	08/19/13	AW	SW 8082

### QA/QC Surrogates

% DCBP	68			%	08/19/13	AW	30 - 150 %
% TCMX	75			%	08/19/13	AW	30 - 150 %

### Pesticides - Soil

4,4' -DDD	ND	2.9	2.9	ug/Kg	08/21/13	MH	SW8081
4,4' -DDE	ND	2.9	2.9	ug/Kg	08/21/13	MH	SW8081
4,4' -DDT	ND	2.9	2.9	ug/Kg	08/21/13	MH	SW8081
a-BHC	ND	2.0	2.0	ug/Kg	08/21/13	MH	SW8081
a-Chlordane	ND	4.0	4.0	ug/Kg	08/21/13	MH	SW8081
Aldrin	ND	2.0	2.0	ug/Kg	08/21/13	MH	SW8081
b-BHC	ND	2.0	2.0	ug/Kg	08/21/13	MH	SW8081
Chlordane	ND	24	24	ug/Kg	08/21/13	MH	SW8081
d-BHC	ND	2.0	2.0	ug/Kg	08/21/13	MH	SW8081
Dieldrin	ND	2.0	2.0	ug/Kg	08/21/13	MH	SW8081
Endosulfan I	ND	4.0	4.0	ug/Kg	08/21/13	MH	SW8081
Endosulfan II	ND	4.0	4.0	ug/Kg	08/21/13	MH	SW8081
Endosulfan sulfate	ND	4.0	4.0	ug/Kg	08/21/13	MH	SW8081
Endrin	ND	2.0	2.0	ug/Kg	08/21/13	MH	SW8081
Endrin aldehyde	ND	4.0	4.0	ug/Kg	08/21/13	MH	SW8081
Endrin ketone	ND	2.0	2.0	ug/Kg	08/21/13	MH	SW8081
g-BHC	ND	2.0	2.0	ug/Kg	08/21/13	MH	SW8081
g-Chlordane	ND	4.0	4.0	ug/Kg	08/21/13	MH	SW8081
Heptachlor	ND	2.0	2.0	ug/Kg	08/21/13	MH	SW8081
Heptachlor epoxide	ND	2.0	2.0	ug/Kg	08/21/13	MH	SW8081
Methoxychlor	ND	8.0	8.0	ug/Kg	08/21/13	MH	SW8081
Toxaphene	ND	39	39	ug/Kg	08/21/13	MH	SW8081

### QA/QC Surrogates

% DCBP	86			%	08/21/13	MH	30 - 150 %
% TCMX	68			%	08/21/13	MH	30 - 150 %

### Volatiles

1,1,1,2-Tetrachloroethane	ND	6.0	0.99	ug/Kg	08/19/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	1.2	ug/Kg	08/19/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.0	0.86	ug/Kg	08/19/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	0.59	ug/Kg	08/19/13	R/J	SW8260
1,1-Dichloroethane	ND	6.0	1.2	ug/Kg	08/19/13	R/J	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,1-Dichloroethene	ND	6.0	1.3	ug/Kg	08/19/13	R/J	SW8260
1,1-Dichloropropene	ND	6.0	1.2	ug/Kg	08/19/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	1.2	ug/Kg	08/19/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.0	0.86	ug/Kg	08/19/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	1.2	ug/Kg	08/19/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.0	0.87	ug/Kg	08/19/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	1.6	ug/Kg	08/19/13	R/J	SW8260
1,2-Dibromoethane	ND	6.0	1.6	ug/Kg	08/19/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.0	0.67	ug/Kg	08/19/13	R/J	SW8260
1,2-Dichloroethane	ND	6.0	0.53	ug/Kg	08/19/13	R/J	SW8260
1,2-Dichloropropane	ND	6.0	0.86	ug/Kg	08/19/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	0.80	ug/Kg	08/19/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	0.90	ug/Kg	08/19/13	R/J	SW8260
1,3-Dichloropropane	ND	6.0	0.64	ug/Kg	08/19/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	0.96	ug/Kg	08/19/13	R/J	SW8260
2,2-Dichloropropane	ND	6.0	1.0	ug/Kg	08/19/13	R/J	SW8260
2-Chlorotoluene	ND	6.0	0.97	ug/Kg	08/19/13	R/J	SW8260
2-Hexanone	ND	30	2.7	ug/Kg	08/19/13	R/J	SW8260
2-Isopropyltoluene	ND	6.0	0.83	ug/Kg	08/19/13	R/J	SW8260
4-Chlorotoluene	ND	6.0	0.70	ug/Kg	08/19/13	R/J	SW8260
4-Methyl-2-pentanone	ND	30	1.4	ug/Kg	08/19/13	R/J	SW8260
Acetone	ND	30	6.0	ug/Kg	08/19/13	R/J	SW8260
Acrylonitrile	ND	12	3.4	ug/Kg	08/19/13	R/J	SW8260
Benzene	ND	6.0	1.2	ug/Kg	08/19/13	R/J	SW8260
Bromobenzene	ND	6.0	0.79	ug/Kg	08/19/13	R/J	SW8260
Bromochloromethane	ND	6.0	0.88	ug/Kg	08/19/13	R/J	SW8260
Bromodichloromethane	ND	6.0	0.75	ug/Kg	08/19/13	R/J	SW8260
Bromoform	ND	6.0	0.85	ug/Kg	08/19/13	R/J	SW8260
Bromomethane	ND	6.0	4.7	ug/Kg	08/19/13	R/J	SW8260
Carbon Disulfide	ND	6.0	0.98	ug/Kg	08/19/13	R/J	SW8260
Carbon tetrachloride	ND	6.0	0.70	ug/Kg	08/19/13	R/J	SW8260
Chlorobenzene	ND	6.0	0.90	ug/Kg	08/19/13	R/J	SW8260
Chloroethane	ND	6.0	1.4	ug/Kg	08/19/13	R/J	SW8260
Chloroform	ND	6.0	1.1	ug/Kg	08/19/13	R/J	SW8260
Chloromethane	ND	6.0	3.2	ug/Kg	08/19/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	1.3	ug/Kg	08/19/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	0.65	ug/Kg	08/19/13	R/J	SW8260
Dibromochloromethane	ND	6.0	0.68	ug/Kg	08/19/13	R/J	SW8260
Dibromomethane	ND	6.0	0.76	ug/Kg	08/19/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.0	1.6	ug/Kg	08/19/13	R/J	SW8260
Ethylbenzene	ND	6.0	1.1	ug/Kg	08/19/13	R/J	SW8260
Hexachlorobutadiene	ND	6.0	1.3	ug/Kg	08/19/13	R/J	SW8260
Isopropylbenzene	ND	6.0	1.2	ug/Kg	08/19/13	R/J	SW8260
m&p-Xylene	ND	6.0	2.4	ug/Kg	08/19/13	R/J	SW8260
Methyl Ethyl Ketone	ND	36	5.3	ug/Kg	08/19/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	1.7	ug/Kg	08/19/13	R/J	SW8260
Methylene chloride	7.0	S 6.0	0.99	ug/Kg	08/19/13	R/J	SW8260
Naphthalene	ND	6.0	1.6	ug/Kg	08/19/13	R/J	SW8260
n-Butylbenzene	ND	6.0	1.1	ug/Kg	08/19/13	R/J	SW8260
n-Propylbenzene	ND	6.0	1.1	ug/Kg	08/19/13	R/J	SW8260

Client ID: EP2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
o-Xylene	ND	6.0	2.3	ug/Kg	08/19/13	R/J	SW8260
p-Isopropyltoluene	ND	6.0	0.87	ug/Kg	08/19/13	R/J	SW8260
sec-Butylbenzene	ND	6.0	1.1	ug/Kg	08/19/13	R/J	SW8260
Styrene	ND	6.0	1.7	ug/Kg	08/19/13	R/J	SW8260
tert-Butylbenzene	ND	6.0	0.97	ug/Kg	08/19/13	R/J	SW8260
Tetrachloroethene	ND	6.0	1.3	ug/Kg	08/19/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	5.4	ug/Kg	08/19/13	R/J	SW8260
Toluene	ND	6.0	0.96	ug/Kg	08/19/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	1.2	ug/Kg	08/19/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	1.2	ug/Kg	08/19/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	11	ug/Kg	08/19/13	R/J	SW8260
Trichloroethene	ND	6.0	1.3	ug/Kg	08/19/13	R/J	SW8260
Trichlorofluoromethane	ND	6.0	1.3	ug/Kg	08/19/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	0.94	ug/Kg	08/19/13	R/J	SW8260
Vinyl chloride	ND	6.0	2.0	ug/Kg	08/19/13	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	102			%	08/19/13	R/J	70 - 121 %
% Bromofluorobenzene	103			%	08/19/13	R/J	59 - 113 %
% Dibromofluoromethane	104			%	08/19/13	R/J	70 - 130 %
% Toluene-d8	100			%	08/19/13	R/J	84 - 138 %
<b><u>Semivolatiles</u></b>							
1,2,4,5-Tetrachlorobenzene	ND	290	140	ug/Kg	08/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	290	220	ug/Kg	08/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	290	140	ug/Kg	08/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	290	100	ug/Kg	08/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	2000	290	ug/Kg	08/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	290	160	ug/Kg	08/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
2-Chloronaphthalene	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
2-Chlorophenol	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
2-Methylnaphthalene	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	190	ug/Kg	08/17/13	DD	SW 8270
2-Nitroaniline	ND	2000	410	ug/Kg	08/17/13	DD	SW 8270
2-Nitrophenol	ND	290	260	ug/Kg	08/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	290	160	ug/Kg	08/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	820	190	ug/Kg	08/17/13	DD	SW 8270
3-Nitroaniline	ND	2000	890	ug/Kg	08/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	2000	440	ug/Kg	08/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	290	140	ug/Kg	08/17/13	DD	SW 8270
4-Chloroaniline	ND	820	190	ug/Kg	08/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	290	140	ug/Kg	08/17/13	DD	SW 8270
4-Nitroaniline	ND	2000	140	ug/Kg	08/17/13	DD	SW 8270

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
4-Nitrophenol	ND	2000	180	ug/Kg	08/17/13	DD	SW 8270
Acenaphthene	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
Acenaphthylene	ND	290	110	ug/Kg	08/17/13	DD	SW 8270
Acetophenone	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
Aniline	ND	2000	820	ug/Kg	08/17/13	DD	SW 8270
Anthracene	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
Benz(a)anthracene	ND	290	140	ug/Kg	08/17/13	DD	SW 8270
Benzidine	ND	820	240	ug/Kg	08/17/13	DD	SW 8270
Benzo(a)pyrene	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
Benzo(b)fluoranthene	ND	290	140	ug/Kg	08/17/13	DD	SW 8270
Benzo(ghi)perylene	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
Benzo(k)fluoranthene	ND	290	140	ug/Kg	08/17/13	DD	SW 8270
Benzoic acid	ND	2000	820	ug/Kg	08/17/13	DD	SW 8270 10
Benzyl butyl phthalate	ND	290	110	ug/Kg	08/17/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	290	110	ug/Kg	08/17/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	290	110	ug/Kg	08/17/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	290	110	ug/Kg	08/17/13	DD	SW 8270 1
Bis(2-ethylhexyl)phthalate	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
Carbazole	ND	2000	310	ug/Kg	08/17/13	DD	SW 8270
Chrysene	ND	290	140	ug/Kg	08/17/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
Dibenzofuran	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
Diethyl phthalate	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
Dimethylphthalate	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
Di-n-butylphthalate	ND	290	110	ug/Kg	08/17/13	DD	SW 8270
Di-n-octylphthalate	ND	290	110	ug/Kg	08/17/13	DD	SW 8270
Fluoranthene	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
Fluorene	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
Hexachlorobenzene	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
Hexachlorobutadiene	ND	290	150	ug/Kg	08/17/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
Hexachloroethane	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	140	ug/Kg	08/17/13	DD	SW 8270
Isophorone	ND	290	110	ug/Kg	08/17/13	DD	SW 8270
Naphthalene	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
Nitrobenzene	ND	290	140	ug/Kg	08/17/13	DD	SW 8270
N-Nitrosodimethylamine	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	290	160	ug/Kg	08/17/13	DD	SW 8270
Pentachloronitrobenzene	ND	290	150	ug/Kg	08/17/13	DD	SW 8270
Pentachlorophenol	ND	290	150	ug/Kg	08/17/13	DD	SW 8270
Phenanthrene	ND	290	120	ug/Kg	08/17/13	DD	SW 8270
Phenol	ND	290	130	ug/Kg	08/17/13	DD	SW 8270
Pyrene	ND	290	140	ug/Kg	08/17/13	DD	SW 8270
Pyridine	ND	290	100	ug/Kg	08/17/13	DD	SW 8270
<b>QA/QC Surrogates</b>							
% 2,4,6-Tribromophenol	105			%	08/17/13	DD	19 - 122 %
% 2-Fluorobiphenyl	93			%	08/17/13	DD	30 - 115 %
% 2-Fluorophenol	84			%	08/17/13	DD	25 - 121 %
% Nitrobenzene-d5	101			%	08/17/13	DD	23 - 120 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Phenol-d5	93			%	08/17/13	DD	24 - 113 %
% Terphenyl-d14	130			%	08/17/13	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
10 = This parameter is not certified by NY NELAC for this matrix.

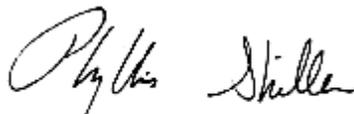
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**August 23, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

August 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date                      Time  
 08/15/13                      12:45  
 08/16/13                      15:22

Laboratory Data

SDG ID: GBF25742  
 Phoenix ID: BF25743

Project ID: 82 THROOP AVE., BROOKLYN  
 Client ID: EP3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver	< 0.37	0.37	0.22	mg/Kg	08/17/13	LK	SW6010
Aluminum	5390	37	7.3	mg/Kg	08/21/13	LK	SW6010
Arsenic	1.2	0.7	0.73	mg/Kg	08/17/13	LK	SW6010
Barium	15.7	N 0.7	0.15	mg/Kg	08/17/13	LK	SW6010
Beryllium	0.26	B 0.29	0.15	mg/Kg	08/17/13	LK	SW6010
Calcium	416	3.7	3.4	mg/Kg	08/17/13	LK	SW6010
Cadmium	< 0.37	0.37	0.15	mg/Kg	08/17/13	LK	SW6010
Cobalt	3.01	0.37	0.15	mg/Kg	08/17/13	LK	SW6010
Chromium	8.91	0.37	0.15	mg/Kg	08/17/13	LK	SW6010
Copper	8.50	0.37	0.29	mg/kg	08/17/13	LK	SW6010
Iron	8930	3.7	3.7	mg/Kg	08/17/13	LK	SW6010
Mercury	< 0.07	0.07	0.04	mg/Kg	08/19/13	RS	SW-7471
Potassium	419	N 7	2.9	mg/Kg	08/17/13	LK	SW6010
Magnesium	1300	3.7	0.22	mg/Kg	08/17/13	LK	SW6010
Manganese	50.6	N 0.37	0.15	mg/Kg	08/17/13	LK	SW6010
Sodium	40	N 7	3.1	mg/Kg	08/17/13	LK	SW6010
Nickel	6.20	0.37	0.15	mg/Kg	08/17/13	LK	SW6010
Lead	3.3	0.7	0.22	mg/Kg	08/17/13	LK	SW6010
Antimony	< 1.8	1.8	0.73	mg/Kg	08/17/13	LK	SW6010
Selenium	< 1.5	1.5	1.2	mg/Kg	08/17/13	LK	SW6010
Thallium	< 1.5	* 1.5	1.5	mg/Kg	08/17/13	LK	SW6010
Vanadium	22.2	0.4	0.15	mg/Kg	08/17/13	LK	SW6010
Zinc	14.0	0.7	0.37	mg/Kg	08/17/13	LK	SW6010
Percent Solid	90			%	08/16/13	W	E160.3
Soil Extraction for PCB	Completed				08/16/13	BB	SW3545
Soil Extraction for Pesticide	Completed				08/16/13	BB/V	SW3545
Soil Extraction for SVOA	Completed				08/16/13	IJ/FV	SW3545
Mercury Digestion	Completed				08/19/13	X/X	SW7471

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				08/16/13	Z/AG	SW846 - 3050
Field Extraction	Completed				08/15/13		SW5035

### Polychlorinated Biphenyls

PCB-1016	ND	36	36	ug/Kg	08/19/13	AW	SW 8082
PCB-1221	ND	36	36	ug/Kg	08/19/13	AW	SW 8082
PCB-1232	ND	36	36	ug/Kg	08/19/13	AW	SW 8082
PCB-1242	ND	36	36	ug/Kg	08/19/13	AW	SW 8082
PCB-1248	ND	36	36	ug/Kg	08/19/13	AW	SW 8082
PCB-1254	ND	36	36	ug/Kg	08/19/13	AW	SW 8082
PCB-1260	ND	36	36	ug/Kg	08/19/13	AW	SW 8082
PCB-1262	ND	36	36	ug/Kg	08/19/13	AW	SW 8082
PCB-1268	ND	36	36	ug/Kg	08/19/13	AW	SW 8082

### QA/QC Surrogates

% DCBP	58			%	08/19/13	AW	30 - 150 %
% TCMX	64			%	08/19/13	AW	30 - 150 %

### Pesticides - Soil

4,4' -DDD	ND	2.6	2.6	ug/Kg	08/21/13	MH	SW8081
4,4' -DDE	ND	2.6	2.6	ug/Kg	08/21/13	MH	SW8081
4,4' -DDT	ND	2.6	2.6	ug/Kg	08/21/13	MH	SW8081
a-BHC	ND	1.8	1.8	ug/Kg	08/21/13	MH	SW8081
a-Chlordane	ND	3.6	3.6	ug/Kg	08/21/13	MH	SW8081
Aldrin	ND	1.8	1.8	ug/Kg	08/21/13	MH	SW8081
b-BHC	ND	1.8	1.8	ug/Kg	08/21/13	MH	SW8081
Chlordane	ND	22	22	ug/Kg	08/21/13	MH	SW8081
d-BHC	ND	1.8	1.8	ug/Kg	08/21/13	MH	SW8081
Dieldrin	ND	1.8	1.8	ug/Kg	08/21/13	MH	SW8081
Endosulfan I	ND	3.6	3.6	ug/Kg	08/21/13	MH	SW8081
Endosulfan II	ND	3.6	3.6	ug/Kg	08/21/13	MH	SW8081
Endosulfan sulfate	ND	3.6	3.6	ug/Kg	08/21/13	MH	SW8081
Endrin	ND	1.8	1.8	ug/Kg	08/21/13	MH	SW8081
Endrin aldehyde	ND	3.6	3.6	ug/Kg	08/21/13	MH	SW8081
Endrin ketone	ND	1.8	1.8	ug/Kg	08/21/13	MH	SW8081
g-BHC	ND	1.8	1.8	ug/Kg	08/21/13	MH	SW8081
g-Chlordane	ND	3.6	3.6	ug/Kg	08/21/13	MH	SW8081
Heptachlor	ND	1.8	1.8	ug/Kg	08/21/13	MH	SW8081
Heptachlor epoxide	ND	1.8	1.8	ug/Kg	08/21/13	MH	SW8081
Methoxychlor	ND	7.3	7.3	ug/Kg	08/21/13	MH	SW8081
Toxaphene	ND	35	35	ug/Kg	08/21/13	MH	SW8081

### QA/QC Surrogates

% DCBP	71			%	08/21/13	MH	30 - 150 %
% TCMX	63			%	08/21/13	MH	30 - 150 %

### Volatiles

1,1,1,2-Tetrachloroethane	ND	5.6	0.92	ug/Kg	08/19/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	1.1	ug/Kg	08/19/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	0.80	ug/Kg	08/19/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	0.55	ug/Kg	08/19/13	R/J	SW8260
1,1-Dichloroethane	ND	5.6	1.1	ug/Kg	08/19/13	R/J	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
1,1-Dichloroethene	ND	5.6	1.2	ug/Kg	08/19/13	R/J	SW8260
1,1-Dichloropropene	ND	5.6	1.1	ug/Kg	08/19/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	1.1	ug/Kg	08/19/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.6	0.80	ug/Kg	08/19/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	1.1	ug/Kg	08/19/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	0.81	ug/Kg	08/19/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	1.5	ug/Kg	08/19/13	R/J	SW8260
1,2-Dibromoethane	ND	5.6	1.5	ug/Kg	08/19/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.6	0.62	ug/Kg	08/19/13	R/J	SW8260
1,2-Dichloroethane	ND	5.6	0.49	ug/Kg	08/19/13	R/J	SW8260
1,2-Dichloropropane	ND	5.6	0.80	ug/Kg	08/19/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	0.74	ug/Kg	08/19/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	0.83	ug/Kg	08/19/13	R/J	SW8260
1,3-Dichloropropane	ND	5.6	0.59	ug/Kg	08/19/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	0.89	ug/Kg	08/19/13	R/J	SW8260
2,2-Dichloropropane	ND	5.6	0.94	ug/Kg	08/19/13	R/J	SW8260
2-Chlorotoluene	ND	5.6	0.90	ug/Kg	08/19/13	R/J	SW8260
2-Hexanone	ND	28	2.5	ug/Kg	08/19/13	R/J	SW8260
2-Isopropyltoluene	ND	5.6	0.77	ug/Kg	08/19/13	R/J	SW8260
4-Chlorotoluene	ND	5.6	0.65	ug/Kg	08/19/13	R/J	SW8260
4-Methyl-2-pentanone	ND	28	1.3	ug/Kg	08/19/13	R/J	SW8260
Acetone	ND	28	5.6	ug/Kg	08/19/13	R/J	SW8260
Acrylonitrile	ND	11	3.2	ug/Kg	08/19/13	R/J	SW8260
Benzene	ND	5.6	1.1	ug/Kg	08/19/13	R/J	SW8260
Bromobenzene	ND	5.6	0.73	ug/Kg	08/19/13	R/J	SW8260
Bromochloromethane	ND	5.6	0.82	ug/Kg	08/19/13	R/J	SW8260
Bromodichloromethane	ND	5.6	0.70	ug/Kg	08/19/13	R/J	SW8260
Bromoform	ND	5.6	0.79	ug/Kg	08/19/13	R/J	SW8260
Bromomethane	ND	5.6	4.3	ug/Kg	08/19/13	R/J	SW8260
Carbon Disulfide	ND	5.6	0.91	ug/Kg	08/19/13	R/J	SW8260
Carbon tetrachloride	ND	5.6	0.65	ug/Kg	08/19/13	R/J	SW8260
Chlorobenzene	ND	5.6	0.83	ug/Kg	08/19/13	R/J	SW8260
Chloroethane	ND	5.6	1.3	ug/Kg	08/19/13	R/J	SW8260
Chloroform	ND	5.6	1.0	ug/Kg	08/19/13	R/J	SW8260
Chloromethane	ND	5.6	2.9	ug/Kg	08/19/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	1.2	ug/Kg	08/19/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	0.61	ug/Kg	08/19/13	R/J	SW8260
Dibromochloromethane	ND	5.6	0.63	ug/Kg	08/19/13	R/J	SW8260
Dibromomethane	ND	5.6	0.71	ug/Kg	08/19/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.6	1.5	ug/Kg	08/19/13	R/J	SW8260
Ethylbenzene	ND	5.6	1.0	ug/Kg	08/19/13	R/J	SW8260
Hexachlorobutadiene	ND	5.6	1.2	ug/Kg	08/19/13	R/J	SW8260
Isopropylbenzene	ND	5.6	1.1	ug/Kg	08/19/13	R/J	SW8260
m&p-Xylene	ND	5.6	2.2	ug/Kg	08/19/13	R/J	SW8260
Methyl Ethyl Ketone	ND	34	4.9	ug/Kg	08/19/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	1.5	ug/Kg	08/19/13	R/J	SW8260
Methylene chloride	7.3	S 5.6	0.92	ug/Kg	08/19/13	R/J	SW8260
Naphthalene	ND	5.6	1.5	ug/Kg	08/19/13	R/J	SW8260
n-Butylbenzene	ND	5.6	1.0	ug/Kg	08/19/13	R/J	SW8260
n-Propylbenzene	ND	5.6	1.0	ug/Kg	08/19/13	R/J	SW8260

Client ID: EP3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
o-Xylene	ND	5.6	2.1	ug/Kg	08/19/13	R/J	SW8260
p-Isopropyltoluene	ND	5.6	0.81	ug/Kg	08/19/13	R/J	SW8260
sec-Butylbenzene	ND	5.6	1.1	ug/Kg	08/19/13	R/J	SW8260
Styrene	ND	5.6	1.6	ug/Kg	08/19/13	R/J	SW8260
tert-Butylbenzene	ND	5.6	0.90	ug/Kg	08/19/13	R/J	SW8260
Tetrachloroethene	ND	5.6	1.2	ug/Kg	08/19/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	5.1	ug/Kg	08/19/13	R/J	SW8260
Toluene	ND	5.6	0.89	ug/Kg	08/19/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	1.1	ug/Kg	08/19/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	1.1	ug/Kg	08/19/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	10	ug/Kg	08/19/13	R/J	SW8260
Trichloroethene	ND	5.6	1.2	ug/Kg	08/19/13	R/J	SW8260
Trichlorofluoromethane	ND	5.6	1.2	ug/Kg	08/19/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.6	0.88	ug/Kg	08/19/13	R/J	SW8260
Vinyl chloride	ND	5.6	1.8	ug/Kg	08/19/13	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	101			%	08/19/13	R/J	70 - 121 %
% Bromofluorobenzene	95			%	08/19/13	R/J	59 - 113 %
% Dibromofluoromethane	103			%	08/19/13	R/J	70 - 130 %
% Toluene-d8	99			%	08/19/13	R/J	84 - 138 %
<b><u>Semivolatiles</u></b>							
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	08/17/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
1,2-Dichlorobenzene	ND	250	100	ug/Kg	08/17/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
1,3-Dichlorobenzene	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
1,4-Dichlorobenzene	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	08/17/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
2,4-Dichlorophenol	ND	250	130	ug/Kg	08/17/13	DD	SW 8270
2,4-Dimethylphenol	ND	250	90	ug/Kg	08/17/13	DD	SW 8270
2,4-Dinitrophenol	ND	1800	250	ug/Kg	08/17/13	DD	SW 8270
2,4-Dinitrotoluene	ND	250	140	ug/Kg	08/17/13	DD	SW 8270
2,6-Dinitrotoluene	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
2-Chloronaphthalene	ND	250	100	ug/Kg	08/17/13	DD	SW 8270
2-Chlorophenol	ND	250	100	ug/Kg	08/17/13	DD	SW 8270
2-Methylnaphthalene	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	08/17/13	DD	SW 8270
2-Nitroaniline	ND	1800	370	ug/Kg	08/17/13	DD	SW 8270
2-Nitrophenol	ND	250	230	ug/Kg	08/17/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	08/17/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	720	170	ug/Kg	08/17/13	DD	SW 8270
3-Nitroaniline	ND	1800	790	ug/Kg	08/17/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1800	390	ug/Kg	08/17/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	08/17/13	DD	SW 8270
4-Chloroaniline	ND	720	170	ug/Kg	08/17/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
4-Nitroaniline	ND	1800	120	ug/Kg	08/17/13	DD	SW 8270

Client ID: EP3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
4-Nitrophenol	ND	1800	160	ug/Kg	08/17/13	DD	SW 8270
Acenaphthene	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
Acenaphthylene	ND	250	100	ug/Kg	08/17/13	DD	SW 8270
Acetophenone	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
Aniline	ND	1800	730	ug/Kg	08/17/13	DD	SW 8270
Anthracene	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Benz(a)anthracene	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Benzidine	ND	720	210	ug/Kg	08/17/13	DD	SW 8270
Benzo(a)pyrene	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Benzo(b)fluoranthene	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Benzo(ghi)perylene	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Benzo(k)fluoranthene	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Benzoic acid	ND	1800	720	ug/Kg	08/17/13	DD	SW 8270 10
Benzyl butyl phthalate	ND	250	93	ug/Kg	08/17/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	250	100	ug/Kg	08/17/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	250	98	ug/Kg	08/17/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	250	100	ug/Kg	08/17/13	DD	SW 8270 1
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	08/17/13	DD	SW 8270
Carbazole	ND	1800	270	ug/Kg	08/17/13	DD	SW 8270
Chrysene	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Dibenzofuran	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
Diethyl phthalate	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
Dimethylphthalate	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
Di-n-butylphthalate	ND	250	96	ug/Kg	08/17/13	DD	SW 8270
Di-n-octylphthalate	ND	250	93	ug/Kg	08/17/13	DD	SW 8270
Fluoranthene	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Fluorene	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Hexachlorobenzene	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
Hexachlorobutadiene	ND	250	130	ug/Kg	08/17/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
Hexachloroethane	ND	250	110	ug/Kg	08/17/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Isophorone	ND	250	100	ug/Kg	08/17/13	DD	SW 8270
Naphthalene	ND	250	100	ug/Kg	08/17/13	DD	SW 8270
Nitrobenzene	ND	250	130	ug/Kg	08/17/13	DD	SW 8270
N-Nitrosodimethylamine	ND	250	100	ug/Kg	08/17/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	08/17/13	DD	SW 8270
Pentachloronitrobenzene	ND	250	130	ug/Kg	08/17/13	DD	SW 8270
Pentachlorophenol	ND	250	140	ug/Kg	08/17/13	DD	SW 8270
Phenanthrene	ND	250	100	ug/Kg	08/17/13	DD	SW 8270
Phenol	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Pyrene	ND	250	120	ug/Kg	08/17/13	DD	SW 8270
Pyridine	ND	250	89	ug/Kg	08/17/13	DD	SW 8270
<b>QA/QC Surrogates</b>							
% 2,4,6-Tribromophenol	89			%	08/17/13	DD	19 - 122 %
% 2-Fluorobiphenyl	97			%	08/17/13	DD	30 - 115 %
% 2-Fluorophenol	83			%	08/17/13	DD	25 - 121 %
% Nitrobenzene-d5	106			%	08/17/13	DD	23 - 120 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Phenol-d5	82			%	08/17/13	DD	24 - 113 %
% Terphenyl-d14	121			%	08/17/13	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
10 = This parameter is not certified by NY NELAC for this matrix.

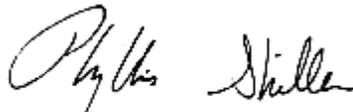
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**August 23, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 August 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date                      Time  
 08/15/13                      0:00  
 08/16/13                      15:22

Laboratory Data

SDG ID: GBF25742  
 Phoenix ID: BF25744

Project ID: 82 THROOP AVE., BROOKLYN  
 Client ID: TRIP BLANK HIGH

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Percent Solid	100	1		%	08/15/13		E160.3

Volatiles

1,1,1,2-Tetrachloroethane	ND	250	41	ug/Kg	08/19/13	R/J	SW8260
1,1,1-Trichloroethane	ND	250	50	ug/Kg	08/19/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	36	ug/Kg	08/19/13	R/J	SW8260
1,1,2-Trichloroethane	ND	250	25	ug/Kg	08/19/13	R/J	SW8260
1,1-Dichloroethane	ND	250	50	ug/Kg	08/19/13	R/J	SW8260
1,1-Dichloroethene	ND	250	55	ug/Kg	08/19/13	R/J	SW8260
1,1-Dichloropropene	ND	250	49	ug/Kg	08/19/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	250	50	ug/Kg	08/19/13	R/J	SW8260
1,2,3-Trichloropropane	ND	250	36	ug/Kg	08/19/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	250	50	ug/Kg	08/19/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	250	36	ug/Kg	08/19/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	67	ug/Kg	08/19/13	R/J	SW8260
1,2-Dibromoethane	ND	250	67	ug/Kg	08/19/13	R/J	SW8260
1,2-Dichlorobenzene	ND	250	28	ug/Kg	08/19/13	R/J	SW8260
1,2-Dichloroethane	ND	250	22	ug/Kg	08/19/13	R/J	SW8260
1,2-Dichloropropane	ND	250	36	ug/Kg	08/19/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	250	33	ug/Kg	08/19/13	R/J	SW8260
1,3-Dichlorobenzene	ND	250	37	ug/Kg	08/19/13	R/J	SW8260
1,3-Dichloropropane	ND	250	27	ug/Kg	08/19/13	R/J	SW8260
1,4-Dichlorobenzene	ND	250	40	ug/Kg	08/19/13	R/J	SW8260
2,2-Dichloropropane	ND	250	42	ug/Kg	08/19/13	R/J	SW8260
2-Chlorotoluene	ND	250	40	ug/Kg	08/19/13	R/J	SW8260
2-Hexanone	ND	1300	110	ug/Kg	08/19/13	R/J	SW8260
2-Isopropyltoluene	ND	250	35	ug/Kg	08/19/13	R/J	SW8260
4-Chlorotoluene	ND	250	29	ug/Kg	08/19/13	R/J	SW8260
4-Methyl-2-pentanone	ND	1300	60	ug/Kg	08/19/13	R/J	SW8260

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Acetone	ND	2500	250	ug/Kg	08/19/13	R/J	SW8260
Acrylonitrile	ND	500	140	ug/Kg	08/19/13	R/J	SW8260
Benzene	ND	250	50	ug/Kg	08/19/13	R/J	SW8260
Bromobenzene	ND	250	33	ug/Kg	08/19/13	R/J	SW8260
Bromochloromethane	ND	250	37	ug/Kg	08/19/13	R/J	SW8260
Bromodichloromethane	ND	250	31	ug/Kg	08/19/13	R/J	SW8260
Bromoform	ND	250	35	ug/Kg	08/19/13	R/J	SW8260
Bromomethane	ND	250	190	ug/Kg	08/19/13	R/J	SW8260
Carbon Disulfide	ND	250	41	ug/Kg	08/19/13	R/J	SW8260
Carbon tetrachloride	ND	250	29	ug/Kg	08/19/13	R/J	SW8260
Chlorobenzene	ND	250	37	ug/Kg	08/19/13	R/J	SW8260
Chloroethane	ND	250	59	ug/Kg	08/19/13	R/J	SW8260
Chloroform	ND	250	46	ug/Kg	08/19/13	R/J	SW8260
Chloromethane	ND	250	130	ug/Kg	08/19/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	250	55	ug/Kg	08/19/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	250	27	ug/Kg	08/19/13	R/J	SW8260
Dibromochloromethane	ND	250	28	ug/Kg	08/19/13	R/J	SW8260
Dibromomethane	ND	250	32	ug/Kg	08/19/13	R/J	SW8260
Dichlorodifluoromethane	ND	250	67	ug/Kg	08/19/13	R/J	SW8260
Ethylbenzene	ND	250	46	ug/Kg	08/19/13	R/J	SW8260
Hexachlorobutadiene	ND	250	53	ug/Kg	08/19/13	R/J	SW8260
Isopropylbenzene	ND	250	48	ug/Kg	08/19/13	R/J	SW8260
m&p-Xylene	ND	250	99	ug/Kg	08/19/13	R/J	SW8260
Methyl Ethyl Ketone	ND	1500	220	ug/Kg	08/19/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	500	69	ug/Kg	08/19/13	R/J	SW8260
Methylene chloride	200 JS	250	41	ug/Kg	08/19/13	R/J	SW8260
Naphthalene	ND	250	67	ug/Kg	08/19/13	R/J	SW8260
n-Butylbenzene	ND	250	46	ug/Kg	08/19/13	R/J	SW8260
n-Propylbenzene	ND	250	45	ug/Kg	08/19/13	R/J	SW8260
o-Xylene	ND	250	96	ug/Kg	08/19/13	R/J	SW8260
p-Isopropyltoluene	ND	250	36	ug/Kg	08/19/13	R/J	SW8260
sec-Butylbenzene	ND	250	47	ug/Kg	08/19/13	R/J	SW8260
Styrene	ND	250	72	ug/Kg	08/19/13	R/J	SW8260
tert-Butylbenzene	ND	250	40	ug/Kg	08/19/13	R/J	SW8260
Tetrachloroethene	ND	250	53	ug/Kg	08/19/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	500	230	ug/Kg	08/19/13	R/J	SW8260
Toluene	ND	250	40	ug/Kg	08/19/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	250	50	ug/Kg	08/19/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	250	51	ug/Kg	08/19/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	500	460	ug/Kg	08/19/13	R/J	SW8260
Trichloroethene	ND	250	53	ug/Kg	08/19/13	R/J	SW8260
Trichlorofluoromethane	ND	250	56	ug/Kg	08/19/13	R/J	SW8260
Trichlorotrifluoroethane	ND	250	39	ug/Kg	08/19/13	R/J	SW8260
Vinyl chloride	ND	250	81	ug/Kg	08/19/13	R/J	SW8260
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	101			%	08/19/13	R/J	70 - 121 %
% Bromofluorobenzene	98			%	08/19/13	R/J	59 - 113 %
% Dibromofluoromethane	101			%	08/19/13	R/J	70 - 130 %
% Toluene-d8	101			%	08/19/13	R/J	84 - 138 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

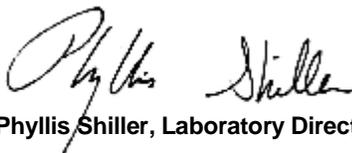
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**August 23, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

August 23, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date: 08/15/13 0:00  
 08/16/13 15:22

## Laboratory Data

SDG ID: GBF25742  
 Phoenix ID: BF25745

Project ID: 82 THROOP AVE., BROOKLYN  
 Client ID: TRIP BLANK LOW

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Percent Solid	100	1		%	08/15/13		E160.3
Field Extraction	Completed				08/15/13		SW5035

## Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	0.82	ug/Kg	08/19/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.0	1.0	ug/Kg	08/19/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.0	0.71	ug/Kg	08/19/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.0	0.49	ug/Kg	08/19/13	R/J	SW8260
1,1-Dichloroethane	ND	5.0	0.99	ug/Kg	08/19/13	R/J	SW8260
1,1-Dichloroethene	ND	5.0	1.1	ug/Kg	08/19/13	R/J	SW8260
1,1-Dichloropropene	ND	5.0	0.97	ug/Kg	08/19/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/Kg	08/19/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.0	0.71	ug/Kg	08/19/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/Kg	08/19/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.0	0.72	ug/Kg	08/19/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/Kg	08/19/13	R/J	SW8260
1,2-Dibromoethane	ND	5.0	1.3	ug/Kg	08/19/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.0	0.55	ug/Kg	08/19/13	R/J	SW8260
1,2-Dichloroethane	ND	5.0	0.44	ug/Kg	08/19/13	R/J	SW8260
1,2-Dichloropropane	ND	5.0	0.71	ug/Kg	08/19/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.0	0.66	ug/Kg	08/19/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.0	0.74	ug/Kg	08/19/13	R/J	SW8260
1,3-Dichloropropane	ND	5.0	0.53	ug/Kg	08/19/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.0	0.79	ug/Kg	08/19/13	R/J	SW8260
2,2-Dichloropropane	ND	5.0	0.84	ug/Kg	08/19/13	R/J	SW8260
2-Chlorotoluene	ND	5.0	0.80	ug/Kg	08/19/13	R/J	SW8260
2-Hexanone	ND	25	2.3	ug/Kg	08/19/13	R/J	SW8260
2-Isopropyltoluene	ND	5.0	0.69	ug/Kg	08/19/13	R/J	SW8260
4-Chlorotoluene	ND	5.0	0.58	ug/Kg	08/19/13	R/J	SW8260

Client ID: TRIP BLANK LOW

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	1.2	ug/Kg	08/19/13	R/J	SW8260
Acetone	ND	50	5.0	ug/Kg	08/19/13	R/J	SW8260
Acrylonitrile	ND	10	2.8	ug/Kg	08/19/13	R/J	SW8260
Benzene	ND	5.0	0.99	ug/Kg	08/19/13	R/J	SW8260
Bromobenzene	ND	5.0	0.65	ug/Kg	08/19/13	R/J	SW8260
Bromochloromethane	ND	5.0	0.73	ug/Kg	08/19/13	R/J	SW8260
Bromodichloromethane	ND	5.0	0.62	ug/Kg	08/19/13	R/J	SW8260
Bromoform	ND	5.0	0.70	ug/Kg	08/19/13	R/J	SW8260
Bromomethane	ND	5.0	3.9	ug/Kg	08/19/13	R/J	SW8260
Carbon Disulfide	ND	5.0	0.81	ug/Kg	08/19/13	R/J	SW8260
Carbon tetrachloride	ND	5.0	0.58	ug/Kg	08/19/13	R/J	SW8260
Chlorobenzene	ND	5.0	0.74	ug/Kg	08/19/13	R/J	SW8260
Chloroethane	ND	5.0	1.2	ug/Kg	08/19/13	R/J	SW8260
Chloroform	ND	5.0	0.91	ug/Kg	08/19/13	R/J	SW8260
Chloromethane	ND	5.0	2.6	ug/Kg	08/19/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	1.1	ug/Kg	08/19/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	0.54	ug/Kg	08/19/13	R/J	SW8260
Dibromochloromethane	ND	5.0	0.56	ug/Kg	08/19/13	R/J	SW8260
Dibromomethane	ND	5.0	0.63	ug/Kg	08/19/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.0	1.3	ug/Kg	08/19/13	R/J	SW8260
Ethylbenzene	ND	5.0	0.91	ug/Kg	08/19/13	R/J	SW8260
Hexachlorobutadiene	ND	5.0	1.1	ug/Kg	08/19/13	R/J	SW8260
Isopropylbenzene	ND	5.0	0.96	ug/Kg	08/19/13	R/J	SW8260
m&p-Xylene	ND	5.0	2.0	ug/Kg	08/19/13	R/J	SW8260
Methyl Ethyl Ketone	ND	30	4.3	ug/Kg	08/19/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	1.4	ug/Kg	08/19/13	R/J	SW8260
Methylene chloride	1.0	JS 5.0	0.82	ug/Kg	08/19/13	R/J	SW8260
Naphthalene	ND	5.0	1.3	ug/Kg	08/19/13	R/J	SW8260
n-Butylbenzene	ND	5.0	0.91	ug/Kg	08/19/13	R/J	SW8260
n-Propylbenzene	ND	5.0	0.90	ug/Kg	08/19/13	R/J	SW8260
o-Xylene	ND	5.0	1.9	ug/Kg	08/19/13	R/J	SW8260
p-Isopropyltoluene	ND	5.0	0.72	ug/Kg	08/19/13	R/J	SW8260
sec-Butylbenzene	ND	5.0	0.94	ug/Kg	08/19/13	R/J	SW8260
Styrene	ND	5.0	1.4	ug/Kg	08/19/13	R/J	SW8260
tert-Butylbenzene	ND	5.0	0.80	ug/Kg	08/19/13	R/J	SW8260
Tetrachloroethene	ND	5.0	1.1	ug/Kg	08/19/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	4.5	ug/Kg	08/19/13	R/J	SW8260
Toluene	ND	5.0	0.79	ug/Kg	08/19/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	1.0	ug/Kg	08/19/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	1.0	ug/Kg	08/19/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	9.3	ug/Kg	08/19/13	R/J	SW8260
Trichloroethene	ND	5.0	1.1	ug/Kg	08/19/13	R/J	SW8260
Trichlorofluoromethane	ND	5.0	1.1	ug/Kg	08/19/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.0	0.78	ug/Kg	08/19/13	R/J	SW8260
Vinyl chloride	ND	5.0	1.6	ug/Kg	08/19/13	R/J	SW8260
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	100			%	08/19/13	R/J	70 - 121 %
% Bromofluorobenzene	97			%	08/19/13	R/J	59 - 113 %
% Dibromofluoromethane	100			%	08/19/13	R/J	70 - 130 %
% Toluene-d8	101			%	08/19/13	R/J	84 - 138 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

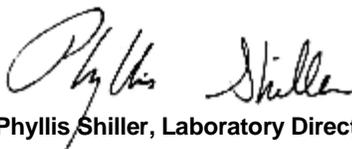
**Comments:**

TRIP BLANK INCLUDED 100% SOLID ASSUMED

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**August 23, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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# QA/QC Report

August 23, 2013

## QA/QC Data

SDG I.D.: GBF25742

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 246653, QC Sample No: BF22396 (BF25742, BF25743)												
Mercury - Soil	BRL	<0.08	<0.07	NC	96.6	94.4	2.3	107	113	5.5	75 - 125	30
QA/QC Batch 246548, QC Sample No: BF25931 (BF25742, BF25743)												
<u>ICP Metals - Soil</u>												
Aluminum	BRL	13900	15600	11.5	101	104	2.9	NC	NC	NC	80 - 120	30
Antimony	BRL	<3.5	<3.8	NC	74.5	81.0	8.4	79.8	81.3	1.9	80 - 120	30
Arsenic	BRL	1.9	2.09	NC	96.6	104	7.4	94.3	92.9	1.5	80 - 120	30
Barium	BRL	106	128	18.8	103	113	9.3	127	120	5.7	80 - 120	30
Beryllium	BRL	1.22	1.21	NC	101	109	7.6	96.7	95.5	1.2	80 - 120	30
Cadmium	BRL	0.39	0.46	NC	98.9	108	8.8	93.9	92.8	1.2	80 - 120	30
Calcium	BRL	1020	954	6.70	100	105	4.9	NC	NC	NC	80 - 120	30
Chromium	BRL	25.6	25.8	0.80	103	112	8.4	100	97.2	2.8	80 - 120	30
Cobalt	BRL	7.80	9.16	16.0	100	112	11.3	98.3	96.3	2.1	80 - 120	30
Copper	BRL	20.3	21.9	7.60	103	114	10.1	106	103	2.9	80 - 120	30
Iron	BRL	19000	22100	15.1	110	115	4.4	NC	NC	NC	80 - 120	30
Lead	BRL	6.24	6.09	2.40	101	106	4.8	94.8	93.7	1.2	80 - 120	30
Magnesium	BRL	4770	5170	8.00	101	106	4.8	NC	NC	NC	80 - 120	30
Manganese	BRL	198	240	19.2	102	114	11.1	>130	>130	NC	80 - 120	30
Nickel	BRL	13.3	15.1	12.7	101	112	10.3	98.4	95.9	2.6	80 - 120	30
Potassium	BRL	2500	3070	20.5	107	114	6.3	>130	>130	NC	80 - 120	30
Selenium	BRL	<1.4	<1.5	NC	86.8	95.4	9.4	84.2	84.5	0.4	80 - 120	30
Silver	BRL	<0.35	<0.38	NC	98.9	107	7.9	99.4	96.5	3.0	80 - 120	30
Sodium	BRL	129	138	6.70	106	114	7.3	>130	>130	NC	80 - 120	30
Thallium	BRL	<3.2	<3.4	NC	101	110	8.5	97.3	95.8	1.6	80 - 120	30
Vanadium	BRL	36.7	38.2	4.00	106	113	6.4	103	99.5	3.5	80 - 120	30
Zinc	BRL	42.4	44.2	4.20	96.6	105	8.3	96.2	92.7	3.7	80 - 120	30

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.  
 m = This parameter is outside laboratory ms/msd specified recovery limits.



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# QA/QC Report

August 23, 2013

## QA/QC Data

SDG I.D.: GBF25742

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 246500, QC Sample No: BF25575 (BF25742, BF25743)									
<u>Pesticides - Soil</u>									
4,4' -DDD	ND	105	107	1.9	110	113	2.7	30 - 150	30
4,4' -DDE	ND	107	109	1.9	109	114	4.5	50 - 150	30
4,4' -DDT	ND	102	105	2.9	107	114	6.3	30 - 150	50
a-BHC	ND	107	111	3.7	111	115	3.5	30 - 150	30
a-Chlordane	ND	101	104	2.9	105	108	2.8	30 - 150	30
Aldrin	ND	103	107	3.8	106	111	4.6	30 - 150	43
b-BHC	ND	103	108	4.7	103	108	4.7	30 - 150	30
Chlordane	ND	NA	NA	NC	NA	NA	NC	30 - 150	30
d-BHC	ND	96	100	4.1	98	102	4.0	30 - 150	30
Dieldrin	ND	106	110	3.7	108	114	5.4	30 - 130	38
Endosulfan I	ND	105	108	2.8	110	111	0.9	30 - 150	30
Endosulfan II	ND	97	101	4.0	102	100	2.0	30 - 150	30
Endosulfan sulfate	ND	97	102	5.0	94	100	6.2	50 - 120	30
Endrin	ND	97	101	4.0	106	111	4.6	50 - 120	45
Endrin aldehyde	ND	88	91	3.4	91	96	5.3	30 - 150	30
Endrin ketone	ND	108	111	2.7	109	113	3.6	30 - 150	30
g-BHC	ND	103	107	3.8	107	110	2.8	50 - 120	50
g-Chlordane	ND	101	103	2.0	103	107	3.8	30 - 130	30
Heptachlor	ND	105	109	3.7	110	113	2.7	30 - 150	31
Heptachlor epoxide	ND	104	107	2.8	105	110	4.7	50 - 150	30
Methoxychlor	ND	104	105	1.0	107	111	3.7	30 - 150	30
Toxaphene	ND	NA	NA	NC	NA	NA	NC	30 - 150	30
% DCBP	60	89	90	1.1	94	97	3.1	30 - 150	30
% TCMX	62	93	94	1.1	94	97	3.1	30 - 150	30
QA/QC Batch 246499, QC Sample No: BF25575 (BF25742, BF25743)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	94			71	88	21.4	30 - 120	15
PCB-1221	ND							30 - 150	30
PCB-1232	ND							30 - 150	30
PCB-1242	ND							30 - 150	30
PCB-1248	ND							30 - 150	30
PCB-1254	ND							30 - 150	30
PCB-1260	ND	92			69	94	30.7	30 - 150	20
PCB-1262	ND							30 - 150	30
PCB-1268	ND							30 - 150	30
% DCBP (Surrogate Rec)	95	98			86	96	11.0	30 - 150	20
% TCMX (Surrogate Rec)	90	104			97	106	8.9	30 - 150	20
QA/QC Batch 246497, QC Sample No: BF25575 (BF25742, BF25743)									
<u>Semivolatiles - Soil</u>									
1,2,4,5-Tetrachlorobenzene	ND	96	96	0.0	102	102	0.0	30 - 130	30

## QA/QC Data

SDG I.D.: GBF25742

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trichlorobenzene	ND	94	93	1.1	98	98	0.0	30 - 130	30	
1,2-Dichlorobenzene	ND	95	93	2.1	97	97	0.0	30 - 130	30	
1,2-Diphenylhydrazine	ND	83	82	1.2	90	90	0.0	30 - 130	30	
1,3-Dichlorobenzene	ND	90	90	0.0	93	93	0.0	30 - 130	30	
1,4-Dichlorobenzene	ND	90	90	0.0	93	93	0.0	30 - 130	30	
2,4,5-Trichlorophenol	ND	115	115	0.0	128	128	0.0	30 - 130	30	
2,4,6-Trichlorophenol	ND	114	111	2.7	121	117	3.4	30 - 130	30	
2,4-Dichlorophenol	ND	105	103	1.9	110	110	0.0	30 - 130	30	
2,4-Dimethylphenol	ND	59	58	1.7	52	52	0.0	30 - 130	30	
2,4-Dinitrophenol	ND	48	47	2.1	37	38	2.7	30 - 130	30	
2,4-Dinitrotoluene	ND	93	92	1.1	101	100	1.0	30 - 130	30	m
2,6-Dinitrotoluene	ND	75	75	0.0	82	82	0.0	30 - 130	30	
2-Chloronaphthalene	ND	90	90	0.0	98	97	1.0	30 - 130	30	
2-Chlorophenol	ND	93	93	0.0	97	98	1.0	30 - 130	30	
2-Methylnaphthalene	ND	89	89	0.0	95	96	1.0	30 - 130	30	
2-Methylphenol (o-cresol)	ND	95	94	1.1	95	95	0.0	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
2-Nitrophenol	ND	92	93	1.1	98	96	2.1	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	91	90	1.1	91	91	0.0	30 - 130	30	
3,3'-Dichlorobenzidine	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3-Nitroaniline	ND	103	103	0.0	112	112	0.0	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	92	91	1.1	95	94	1.1	30 - 130	30	
4-Bromophenyl phenyl ether	ND	105	105	0.0	117	116	0.9	30 - 130	30	
4-Chloro-3-methylphenol	ND	106	105	0.9	113	112	0.9	30 - 130	30	m
4-Chloroaniline	ND	86	86	0.0	91	90	1.1	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	90	90	0.0	98	97	1.0	30 - 130	30	
4-Nitroaniline	ND	103	103	0.0	112	112	0.0	30 - 130	30	
4-Nitrophenol	ND	94	84	11.2	8.2	8.4	2.4	30 - 130	30	m
Acenaphthene	ND	92	92	0.0	101	100	1.0	30 - 130	30	
Acenaphthylene	ND	91	92	1.1	100	99	1.0	30 - 130	30	
Acetophenone	ND	96	95	1.0	101	101	0.0	30 - 130	30	
Aniline	ND	>150	>150	NC	131	131	0.0	30 - 130	30	l,m
Anthracene	ND	93	92	1.1	102	102	0.0	30 - 130	30	
Benz(a)anthracene	ND	101	101	0.0	112	111	0.9	30 - 130	30	
Benzidine	ND	55	50	9.5	<5	<5	NC	30 - 130	30	m
Benzo(a)pyrene	ND	88	89	1.1	98	98	0.0	30 - 130	30	
Benzo(b)fluoranthene	ND	101	103	2.0	114	114	0.0	30 - 130	30	
Benzo(ghi)perylene	ND	88	89	1.1	97	90	7.5	30 - 130	30	
Benzo(k)fluoranthene	ND	94	95	1.1	94	101	7.2	30 - 130	30	
Benzyl butyl phthalate	ND	105	105	0.0	118	118	0.0	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	91	91	0.0	96	97	1.0	30 - 130	30	
Bis(2-chloroethyl)ether	ND	81	80	1.2	84	84	0.0	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	84	83	1.2	88	88	0.0	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	97	96	1.0	110	112	1.8	30 - 130	30	
Carbazole	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
Chrysene	ND	97	98	1.0	110	110	0.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	95	97	2.1	104	99	4.9	30 - 130	30	
Dibenzofuran	ND	95	95	0.0	105	104	1.0	30 - 130	30	
Diethyl phthalate	ND	99	98	1.0	107	107	0.0	30 - 130	30	
Dimethylphthalate	ND	97	97	0.0	107	106	0.9	30 - 130	30	
Di-n-butylphthalate	ND	99	98	1.0	110	110	0.0	30 - 130	30	
Di-n-octylphthalate	ND	110	110	0.0	122	122	0.0	30 - 130	30	
Fluoranthene	ND	98	97	1.0	106	105	0.9	30 - 130	30	

QA/QC Data

SDG I.D.: GBF25742

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Fluorene	ND	90	90	0.0	99	98	1.0	30 - 130	30
Hexachlorobenzene	ND	99	99	0.0	113	112	0.9	30 - 130	30
Hexachlorobutadiene	ND	98	96	2.1	101	101	0.0	30 - 130	30
Hexachlorocyclopentadiene	ND	88	87	1.1	76	67	12.6	30 - 130	30
Hexachloroethane	ND	91	90	1.1	92	91	1.1	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	96	97	1.0	104	98	5.9	30 - 130	30
Isophorone	ND	89	90	1.1	95	95	0.0	30 - 130	30
Naphthalene	ND	88	89	1.1	94	94	0.0	30 - 130	30
Nitrobenzene	ND	89	90	1.1	94	93	1.1	30 - 130	30
N-Nitrosodimethylamine	ND	104	104	0.0	108	105	2.8	30 - 130	30
N-Nitrosodi-n-propylamine	ND	90	89	1.1	95	95	0.0	30 - 130	30
N-Nitrosodiphenylamine	ND	110	109	0.9	117	117	0.0	30 - 130	30
Pentachloronitrobenzene	ND	100	99	1.0	112	111	0.9	30 - 130	30
Pentachlorophenol	ND	117	112	4.4	122	77	45.2	30 - 130	30
Phenanthrene	ND	95	95	0.0	107	107	0.0	30 - 130	30
Phenol	ND	92	92	0.0	107	106	0.9	30 - 130	30
Pyrene	ND	95	95	0.0	105	106	0.9	30 - 130	30
Pyridine	ND	83	83	0.0	36	33	8.7	30 - 130	30
% 2,4,6-Tribromophenol	118	102	102	0.0	112	102	9.3	19 - 122	30
% 2-Fluorobiphenyl	97	89	88	1.1	96	96	0.0	30 - 115	30
% 2-Fluorophenol	95	98	99	1.0	101	100	1.0	25 - 121	30
% Nitrobenzene-d5	99	90	90	0.0	95	95	0.0	23 - 120	30
% Phenol-d5	92	96	96	0.0	101	101	0.0	24 - 113	30
% Terphenyl-d14	107	102	102	0.0	110	111	0.9	18 - 137	30

m,r

m

QA/QC Batch 246829, QC Sample No: BF25743 (BF25742, BF25743, BF25744 (50X) , BF25745)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	96	116	18.9	100	90	10.5	70 - 130	30
1,1,1-Trichloroethane	ND	94	112	17.5	102	92	10.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	82	101	20.8	101	91	10.4	70 - 130	30
1,1,2-Trichloroethane	ND	94	116	21.0	98	89	9.6	70 - 130	30
1,1-Dichloroethane	ND	94	112	17.5	100	91	9.4	70 - 130	30
1,1-Dichloroethene	ND	95	109	13.7	102	92	10.3	70 - 130	30
1,1-Dichloropropene	ND	94	109	14.8	101	91	10.4	70 - 130	30
1,2,3-Trichlorobenzene	ND	89	110	21.1	92	83	10.3	70 - 130	30
1,2,3-Trichloropropane	ND	93	111	17.6	97	87	10.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	83	104	22.5	87	80	8.4	70 - 130	30
1,2,4-Trimethylbenzene	ND	93	111	17.6	93	82	12.6	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	92	115	22.2	99	89	10.6	70 - 130	30
1,2-Dibromoethane	ND	94	114	19.2	98	88	10.8	70 - 130	30
1,2-Dichlorobenzene	ND	90	110	20.0	93	84	10.2	70 - 130	30
1,2-Dichloroethane	ND	93	112	18.5	97	87	10.9	70 - 130	30
1,2-Dichloropropane	ND	94	113	18.4	99	90	9.5	70 - 130	30
1,3,5-Trimethylbenzene	ND	92	109	16.9	97	86	12.0	70 - 130	30
1,3-Dichlorobenzene	ND	90	109	19.1	95	85	11.1	70 - 130	30
1,3-Dichloropropane	ND	94	114	19.2	97	87	10.9	70 - 130	30
1,4-Dichlorobenzene	ND	89	108	19.3	92	83	10.3	70 - 130	30
2,2-Dichloropropane	ND	90	108	18.2	96	87	9.8	70 - 130	30
2-Chlorotoluene	ND	89	107	18.4	97	85	13.2	70 - 130	30
2-Hexanone	ND	110	137	21.9	84	75	11.3	70 - 130	30
2-Isopropyltoluene	ND	94	111	16.6	99	89	10.6	70 - 130	30
4-Chlorotoluene	ND	89	107	18.4	97	85	13.2	70 - 130	30
4-Methyl-2-pentanone	ND	97	118	19.5	96	88	8.7	70 - 130	30

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## QA/QC Data

SDG I.D.: GBF25742

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acetone	ND	131	>150	NC	76	65	15.6	70 - 130	30	l,m
Acrylonitrile	ND	91	111	19.8	91	85	6.8	70 - 130	30	
Benzene	ND	92	110	17.8	100	90	10.5	70 - 130	30	
Bromobenzene	ND	92	111	18.7	97	88	9.7	70 - 130	30	
Bromochloromethane	ND	93	112	18.5	99	90	9.5	70 - 130	30	
Bromodichloromethane	ND	93	112	18.5	100	90	10.5	70 - 130	30	
Bromoform	ND	96	117	19.7	101	90	11.5	70 - 130	30	
Bromomethane	ND	93	110	16.7	99	90	9.5	70 - 130	30	
Carbon Disulfide	ND	90	105	15.4	101	91	10.4	70 - 130	30	
Carbon tetrachloride	ND	96	112	15.4	102	92	10.3	70 - 130	30	
Chlorobenzene	ND	94	114	19.2	98	88	10.8	70 - 130	30	
Chloroethane	ND	96	114	17.1	101	92	9.3	70 - 130	30	
Chloroform	ND	93	112	18.5	100	90	10.5	70 - 130	30	
Chloromethane	ND	97	116	17.8	99	90	9.5	70 - 130	30	
cis-1,2-Dichloroethene	ND	96	114	17.1	100	90	10.5	70 - 130	30	
cis-1,3-Dichloropropene	ND	91	111	19.8	97	88	9.7	70 - 130	30	
Dibromochloromethane	ND	95	116	19.9	100	90	10.5	70 - 130	30	
Dibromomethane	ND	94	112	17.5	98	89	9.6	70 - 130	30	
Dichlorodifluoromethane	ND	107	127	17.1	99	90	9.5	70 - 130	30	
Ethylbenzene	ND	92	110	17.8	99	88	11.8	70 - 130	30	
Hexachlorobutadiene	ND	89	103	14.6	94	84	11.2	70 - 130	30	
Isopropylbenzene	ND	95	112	16.4	98	86	13.0	70 - 130	30	
m&p-Xylene	ND	93	112	18.5	97	86	12.0	70 - 130	30	
Methyl ethyl ketone	ND	105	132	22.8	88	76	14.6	70 - 130	30	l
Methyl t-butyl ether (MTBE)	ND	83	102	20.5	96	86	11.0	70 - 130	30	
Methylene chloride	ND	85	102	18.2	89	78	13.2	70 - 130	30	
Naphthalene	ND	97	119	20.4	82	70	15.8	70 - 130	30	
n-Butylbenzene	ND	91	106	15.2	86	74	15.0	70 - 130	30	
n-Propylbenzene	ND	94	110	15.7	95	83	13.5	70 - 130	30	
o-Xylene	ND	95	114	18.2	99	88	11.8	70 - 130	30	
p-Isopropyltoluene	ND	93	108	14.9	98	87	11.9	70 - 130	30	
sec-Butylbenzene	ND	94	109	14.8	94	81	14.9	70 - 130	30	
Styrene	ND	90	108	18.2	95	87	8.8	70 - 130	30	
tert-Butylbenzene	ND	96	113	16.3	102	91	11.4	70 - 130	30	
Tetrachloroethene	ND	94	110	15.7	98	87	11.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	90	111	20.9	95	86	9.9	70 - 130	30	
Toluene	ND	93	110	16.7	99	89	10.6	70 - 130	30	
trans-1,2-Dichloroethene	ND	94	111	16.6	99	91	8.4	70 - 130	30	
trans-1,3-Dichloropropene	ND	91	110	18.9	96	87	9.8	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	91	113	21.6	93	84	10.2	70 - 130	30	
Trichloroethene	ND	100	118	16.5	97	88	9.7	70 - 130	30	
Trichlorofluoromethane	ND	98	114	15.1	103	93	10.2	70 - 130	30	
Trichlorotrifluoroethane	ND	90	106	16.3	103	92	11.3	70 - 130	30	
Vinyl chloride	ND	104	123	16.7	102	91	11.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	99	101	2.0	99	100	1.0	70 - 121	30	
% Bromofluorobenzene	97	100	100	0.0	99	99	0.0	59 - 113	30	
% Dibromofluoromethane	97	99	102	3.0	98	101	3.0	70 - 130	30	
% Toluene-d8	99	99	100	1.0	99	101	2.0	84 - 138	30	

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.  
m = This parameter is outside laboratory ms/msd specified recovery limits.  
r = This parameter is outside laboratory rpd specified recovery limits.

QA/QC Data

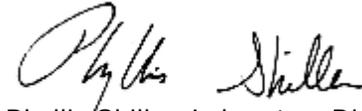
SDG I.D.: GBF25742

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference



Phyllis Shiller, Laboratory Director  
August 23, 2013

## Sample Criteria Exceedences Report

### GBF25742 - EBC

Requested Criteria: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF25742	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	10.4	0.40	1	1	mg/Kg
BF25743	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	8.91	0.37	1	1	mg/Kg
BF25744	\$8260-SMDPR	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	250	210	210	ug/Kg
BF25744	\$8260-SMDPR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg
BF25744	\$8260-SMDPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	2500	50	50	ug/Kg
BF25744	\$8260-SMDPR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	200	250	50	50	ug/Kg
BF25744	\$8260-SMDPR	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	190	190	ug/Kg
BF25744	\$8260-SMDPR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	120	120	ug/Kg
BF25744	\$8260-SMDPR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	60	60	ug/Kg
BF25744	\$8260-SMDPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



# NY Temperature Narration

August 23, 2013

SDG I.D.: GBF25742

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The samples in this delivery group were received at 4°C.  
(Note acceptance criteria is above freezing up to 6°C)

**NY/NJ CHAIN OF CUSTODY RECORD**



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

Temp \_\_\_\_\_ Pg \_\_\_\_\_ of \_\_\_\_\_  
 Data Delivery:  Fax # \_\_\_\_\_  
 Email: CSOS@veelabsny.com

Customer: EBC Project: 82 Troop Ave Bklyn NJ Project P.O.: \_\_\_\_\_  
 Address: 1 Lodge NY Report to: \_\_\_\_\_ Phone #: 631504 600  
 Invoice to: \_\_\_\_\_ Fax #: \_\_\_\_\_

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
25742	EP2	S	8.15	12:15	X
25743	EP3	S	8.15	12:45	X
25744	h. triphlabak				X
25745	h. triphlabak				X

Soil VOC Methanol (1 S. Bisulate) [H2O]	40 ml VOA Vial ( ) oz	GL Soil container ( ) oz	GL Amber 1000ml [As Is] [HCl]	PL As Is [1250ml] [1500ml] [1000ml]	PL H2SO4 [1250ml] [1500ml] [1000ml]	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle

Relinquished by: [Signature] Accepted by: [Signature]  
 Date: 8-16-13 Time: 7:50 AM  
 Date: 8-16-13 Time: 1522

Comments, Special Requirements or Regulations:

Turnaround:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 5 Days  
 10 Days  
 Other  
 \*SURCHARGE APPLIES

NJ Res. Criteria   
 Non-Res. Criteria   
 Impact to GW Soil Cleanup Criteria   
 GW Criteria

NY TOGS GA GW   
 CP-51 Soil   
 NY375 Unrestricted Soil  
 NY375 Residential Soil  
 NY375 Restricted Non-Residential Soil

Data Format:  
 Phoenix Std Report  
 Excel  
 PDF  
 GIS/Key  
 EQulS  
 NJ Hazsite EDD  
 NY EZ EDD (ASP)  
 Other

Data Package:  
 NJ Reduced Deliv.\*  
 NY Enhanced (ASP B)\*  
 Other

State where samples were collected: NJ

**APPENDIX H**  
***Soil Disposal Request Letter***



**ENVIRONMENTAL BUSINESS CONSULTANTS**

---

July 15, 2013

Terry Gojkovich  
Clean Earth  
334 S. Warminster Rd  
Hatboro, PA 19040

**Re: *Facility Acceptance of Soil from  
82 Throop Avenue, Brooklyn, New York 11206  
Office of Environmental Remediation Project No. 13CVCP095K***

Dear Ms. Gojkovich:

Environmental Business Consultants (EBC) is seeking to verify the acceptance of soil from a environmental remediation construction site located at 82 Throop Avenue, Brooklyn, New York 11206, to your Class B Recycling Center located at 24 Middlesex Avenue, Carteret, New Jersey (Clean Earth of Carteret). The soil consists of urban fill with slightly elevated concentrations of some metals and SVOCs. The remediation of the Site is being conducted under a governmental remediation program.

Based on the subsurface sampling conducted at the Site, urban fill is present across the Site to a depth extending from grade to a depth as great as 8 feet below grade. EBC estimates an estimated 700 cubic yards of urban fill will be generated by removing all soil at the Site to a depth of approximately 8 feet.

EBC collected a 5-pt composite soil sample from the historic fill layer from five test pits performed from grade to a approximately 8 feet. The 5-pt composite sample was submitted for laboratory analysis in accordance with the frequency and analytical requirements of the Clean Earth of Carteret facility. A copy of the laboratory report is attached for your records.

Please verify in writing that this material is acceptable under the terms and conditions of the Clean Earth of Carteret operating permit. Please contact me if you have any questions or if anything requires further clarification.

Very truly yours,

Kevin Brussee  
Project Manager



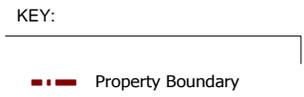
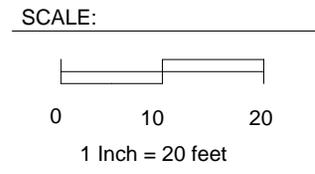
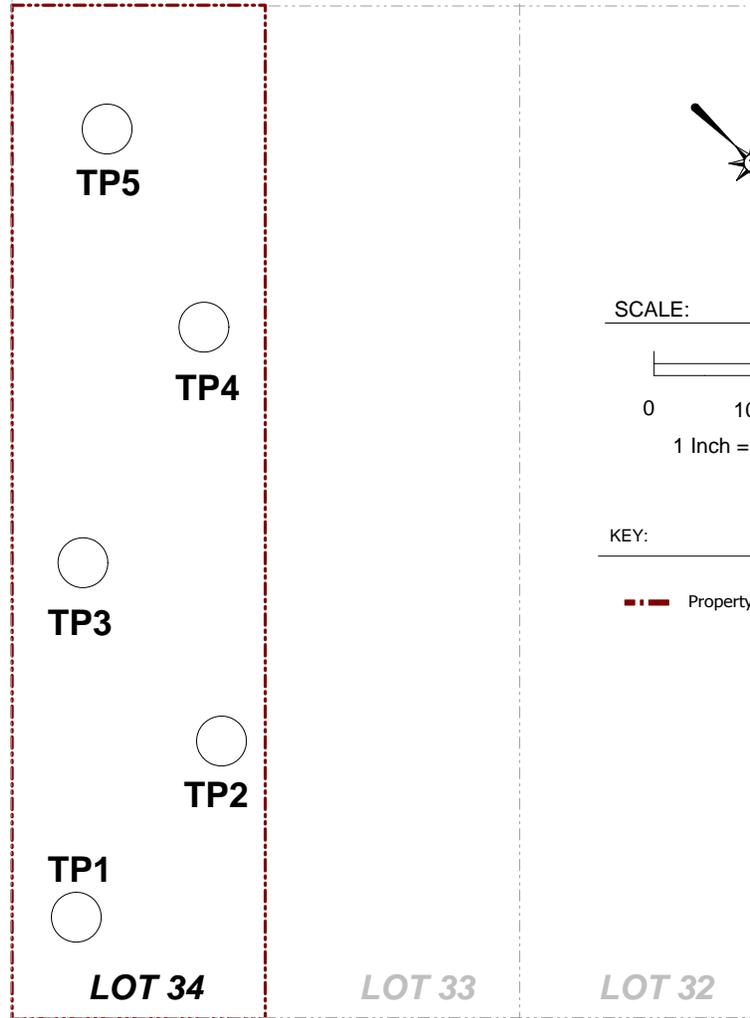
**ENVIRONMENTAL BUSINESS CONSULTANTS**

1808 MIDDLE COUNTRY ROAD | PHONE 631.504.6000  
RIDGE, NY 11961 | FAX 631.924.2870

GERRY STREET

THROOP AVENUE

LOT 36



**ENVIRONMENTAL BUSINESS CONSULTANTS**

1808 MIDDLE COUNTRY ROAD, RIDGE, NY 11961

Phone 631.504.6000

Fax 631.924.2780

82 THROOP AVENUE  
BROOKLYN, NY 11206

**FIGURE 1** TEST PIT PLAN



Thursday, June 20, 2013

Attn: Mr. Charles B. Sosik, P.G.  
Environmental Business Consultants  
1808 Middle Country Rd  
Ridge NY 11961-2406

Project ID: 82 THROOP AVE  
Sample ID#s: BD91419 - BD91420

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 20, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date Time  
 06/10/13 0:00  
 06/13/13 16:14

## Laboratory Data

SDG ID: GBD91419  
 Phoenix ID: BD91419

Project ID: 82 THROOP AVE  
 Client ID: 5-PT COMPOSITE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	06/14/13	LK	SW6010
Aluminum	6910	60	mg/Kg	06/14/13	LK	SW6010
Arsenic	3.9	0.8	mg/Kg	06/14/13	LK	SW6010
Barium	271	0.40	mg/Kg	06/14/13	LK	SW6010
Beryllium	0.37	0.32	mg/Kg	06/14/13	LK	SW6010
Calcium	8400	6.0	mg/Kg	06/14/13	LK	SW6010
Cadmium	0.61	0.40	mg/Kg	06/14/13	LK	SW6010
Cobalt	4.70	0.40	mg/Kg	06/14/13	LK	SW6010
Chromium	18.7	0.40	mg/Kg	06/14/13	LK	SW6010
Copper	35.2	0.40	mg/kg	06/14/13	LK	SW6010
Iron	14500	60	mg/Kg	06/14/13	LK	SW6010
Mercury	1.93	0.09	mg/Kg	06/14/13	RS	SW-7471
Potassium	812	6.0	mg/Kg	06/14/13	LK	SW6010
Magnesium	2260	6.0	mg/Kg	06/14/13	LK	SW6010
Manganese	216	4.0	mg/Kg	06/14/13	LK	SW6010
Sodium	107	6.0	mg/Kg	06/14/13	LK	SW6010
Nickel	12.1	0.40	mg/Kg	06/14/13	LK	SW6010
Lead	338	4.0	mg/Kg	06/14/13	LK	SW6010
Antimony	< 4.0	4.0	mg/Kg	06/14/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	06/14/13	LK	SW6010
TCLP Silver	< 0.10	0.10	mg/L	06/14/13	EK	SW6010
TCLP Arsenic	< 0.10	0.10	mg/L	06/14/13	EK	SW6010
TCLP Barium	0.55	0.10	mg/L	06/14/13	EK	SW6010
TCLP Cadmium	< 0.050	0.050	mg/L	06/14/13	EK	SW6010
TCLP Chromium	< 0.10	0.10	mg/L	06/14/13	EK	SW6010
TCLP Mercury	0.0007	0.0002	mg/L	06/14/13	RS	SW7470
TCLP Lead	2.31	0.10	mg/L	06/14/13	EK	SW6010
TCLP Selenium	< 0.10	0.10	mg/L	06/14/13	EK	SW6010

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Thallium	< 0.6	0.6	mg/Kg	06/14/13	LK	SW6010
TCLP Metals Digestion	Completed			06/14/13	H/H	SW3005
Vanadium	24.0	0.40	mg/Kg	06/14/13	LK	SW6010
Zinc	207	4.0	mg/Kg	06/14/13	LK	SW6010
Percent Solid	85		%	06/13/13	JL	E160.3
Corrosivity	Negative		Pos/Neg	06/13/13	DH/KDB	SW846 1
Flash Point	>200	200	degree F	06/14/13	Y	SW1010
Ignitability	Passed	140	degree F	06/14/13	Y	SW846 1
pH - Soil	6.79	0.10	pH Units	06/13/13 20:30	DH/KDB	4500-H B/9045 1
Reactivity Cyanide	< 5.9	5.9	mg/Kg	06/14/13	JL/GD	SW 846-7.3 1
Reactivity Sulfide	< 20	20	mg/Kg	06/18/13	JL/GD	SW846-7.3 1
Reactivity	Negative		Pos/Neg	06/18/13	JL/GD	SW 846-7.3 1
Soil Extraction for PCB	Completed			06/13/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed			06/13/13	BB	SW3545
Soil Extraction for SVOA	Completed			06/13/13	BJ/FV	SW3545
Mercury Digestion	Completed			06/14/13	H/H	SW7471
TCLP Digestion Mercury	Completed			06/14/13	H/H	E1311/7470
TCLP Extraction for Metals	Completed			06/13/13	H	EPA 1311
Total Metals Digest	Completed			06/13/13	Z/AG	SW846 - 3050
Extraction of TPH SM	Completed			06/17/13	JJ/FV	3545/3550

### Polychlorinated Biphenyls

PCB-1016	ND	78	ug/Kg	06/14/13	AW	SW 8082
PCB-1221	ND	78	ug/Kg	06/14/13	AW	SW 8082
PCB-1232	ND	78	ug/Kg	06/14/13	AW	SW 8082
PCB-1242	ND	78	ug/Kg	06/14/13	AW	SW 8082
PCB-1248	ND	78	ug/Kg	06/14/13	AW	SW 8082
PCB-1254	ND	78	ug/Kg	06/14/13	AW	SW 8082
PCB-1260	ND	78	ug/Kg	06/14/13	AW	SW 8082
PCB-1262	ND	78	ug/Kg	06/14/13	AW	SW 8082
PCB-1268	ND	78	ug/Kg	06/14/13	AW	SW 8082

### QA/QC Surrogates

% DCBP	64		%	06/14/13	AW	30 - 150 %
% TCMX	61		%	06/14/13	AW	30 - 150 %

### Pesticides

4,4' -DDD	ND	7.4	ug/Kg	06/14/13	MH	SW8081
4,4' -DDE	24	7.4	ug/Kg	06/14/13	MH	SW8081
4,4' -DDT	77	7.4	ug/Kg	06/14/13	MH	SW8081
a-BHC	ND	3.7	ug/Kg	06/14/13	MH	SW8081
Alachlor	ND	3.7	ug/Kg	06/14/13	MH	SW8081 1
Aldrin	ND	1.2	ug/Kg	06/14/13	MH	SW8081
b-BHC	ND	3.7	ug/Kg	06/14/13	MH	SW8081
Chlordane	250	12	ug/Kg	06/14/13	MH	SW8081
d-BHC	ND	3.7	ug/Kg	06/14/13	MH	SW8081
Dieldrin	10	1.2	ug/Kg	06/14/13	MH	SW8081
Endosulfan I	ND	3.7	ug/Kg	06/14/13	MH	SW8081
Endosulfan II	ND	7.4	ug/Kg	06/14/13	MH	SW8081
Endosulfan sulfate	ND	7.4	ug/Kg	06/14/13	MH	SW8081
Endrin	ND	7.4	ug/Kg	06/14/13	MH	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Endrin aldehyde	ND	7.4	ug/Kg	06/14/13	MH	SW8081
Endrin ketone	ND	7.4	ug/Kg	06/14/13	MH	SW8081
g-BHC	ND	1.2	ug/Kg	06/14/13	MH	SW8081
Heptachlor	ND	3.9	ug/Kg	06/14/13	MH	SW8081
Heptachlor epoxide	ND	3.7	ug/Kg	06/14/13	MH	SW8081
Methoxychlor	ND	37	ug/Kg	06/14/13	MH	SW8081
Toxaphene	ND	37	ug/Kg	06/14/13	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
% DCBP	75		%	06/14/13	MH	30 - 150 %
% TCMX	65		%	06/14/13	MH	30 - 150 %

**TPH by GC (Extractable Products)**

Fuel Oil #2 / Diesel Fuel	ND	58	mg/kg	06/18/13	JRB	8015M (C9-C36) 1
Fuel Oil #4	ND	58	mg/kg	06/18/13	JRB	8015M (C9-C36) 1
Fuel Oil #6	ND	58	mg/kg	06/18/13	JRB	8015M (C9-C36) 1
Kerosene	ND	58	mg/kg	06/18/13	JRB	8015M (C9-C36) 1
Motor Oil	ND	58	mg/kg	06/18/13	JRB	8015M (C9-C36) 1
Other Oil	ND	58	mg/kg	06/18/13	JRB	8015M (C9-C36) 1
Unidentified	ND	58	mg/kg	06/18/13	JRB	8015M (C9-C36) 1

**QA/QC Surrogates**

% n-Pentacosane	77		%	06/18/13	JRB	50 - 150 %
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**Semivolatiles**

1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	06/14/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	06/14/13	DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	06/14/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	390	ug/Kg	06/14/13	DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	06/14/13	DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	06/14/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	06/14/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	06/14/13	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	06/14/13	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	06/14/13	DD	SW 8270
2,4-Dinitrophenol	ND	620	ug/Kg	06/14/13	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	06/14/13	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	06/14/13	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	06/14/13	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	06/14/13	DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	06/14/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	06/14/13	DD	SW 8270
2-Nitroaniline	ND	620	ug/Kg	06/14/13	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	06/14/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	06/14/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	270	ug/Kg	06/14/13	DD	SW 8270
3-Nitroaniline	ND	620	ug/Kg	06/14/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	06/14/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	390	ug/Kg	06/14/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	06/14/13	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	06/14/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	06/14/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Nitroaniline	ND	620	ug/Kg	06/14/13	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	06/14/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/14/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	06/14/13	DD	SW 8270
Acetophenone	ND	270	ug/Kg	06/14/13	DD	SW 8270
Aniline	ND	1100	ug/Kg	06/14/13	DD	SW 8270
Anthracene	ND	270	ug/Kg	06/14/13	DD	SW 8270
Benz(a)anthracene	950	270	ug/Kg	06/14/13	DD	SW 8270
Benzidine	ND	470	ug/Kg	06/14/13	DD	SW 8270
Benzo(a)pyrene	900	270	ug/Kg	06/14/13	DD	SW 8270
Benzo(b)fluoranthene	1300	270	ug/Kg	06/14/13	DD	SW 8270
Benzo(ghi)perylene	460	270	ug/Kg	06/14/13	DD	SW 8270
Benzo(k)fluoranthene	450	270	ug/Kg	06/14/13	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	06/14/13	DD	SW 8270
Benzyl butyl phthalate	ND	270	ug/Kg	06/14/13	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	06/14/13	DD	SW 8270
Bis(2-chloroethyl)ether	ND	390	ug/Kg	06/14/13	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	06/14/13	DD	SW 8270
Bis(2-ethylhexyl)phthalate	2600	270	ug/Kg	06/14/13	DD	SW 8270
Carbazole	ND	580	ug/Kg	06/14/13	DD	SW 8270
Chrysene	1100	270	ug/Kg	06/14/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/14/13	DD	SW 8270
Dibenzofuran	ND	270	ug/Kg	06/14/13	DD	SW 8270
Diethyl phthalate	ND	270	ug/Kg	06/14/13	DD	SW 8270
Dimethylphthalate	ND	270	ug/Kg	06/14/13	DD	SW 8270
Di-n-butylphthalate	ND	270	ug/Kg	06/14/13	DD	SW 8270
Di-n-octylphthalate	ND	270	ug/Kg	06/14/13	DD	SW 8270
Fluoranthene	2000	270	ug/Kg	06/14/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	06/14/13	DD	SW 8270
Hexachlorobenzene	ND	270	ug/Kg	06/14/13	DD	SW 8270
Hexachlorobutadiene	ND	270	ug/Kg	06/14/13	DD	SW 8270
Hexachlorocyclopentadiene	ND	270	ug/Kg	06/14/13	DD	SW 8270
Hexachloroethane	ND	270	ug/Kg	06/14/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	460	270	ug/Kg	06/14/13	DD	SW 8270
Isophorone	ND	270	ug/Kg	06/14/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	06/14/13	DD	SW 8270
Nitrobenzene	ND	270	ug/Kg	06/14/13	DD	SW 8270
N-Nitrosodimethylamine	ND	390	ug/Kg	06/14/13	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	06/14/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	390	ug/Kg	06/14/13	DD	SW 8270
Pentachloronitrobenzene	ND	390	ug/Kg	06/14/13	DD	SW 8270
Pentachlorophenol	ND	390	ug/Kg	06/14/13	DD	SW 8270
Phenanthrene	1200	270	ug/Kg	06/14/13	DD	SW 8270
Phenol	ND	270	ug/Kg	06/14/13	DD	SW 8270
Pyrene	1800	270	ug/Kg	06/14/13	DD	SW 8270
Pyridine	ND	390	ug/Kg	06/14/13	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	73		%	06/14/13	DD	30 - 130 %
% 2-Fluorobiphenyl	55		%	06/14/13	DD	30 - 130 %
% 2-Fluorophenol	56		%	06/14/13	DD	30 - 130 %

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1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	61		%	06/14/13	DD	30 - 130 %
% Phenol-d5	61		%	06/14/13	DD	30 - 130 %
% Terphenyl-d14	72		%	06/14/13	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

**Comments:**

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

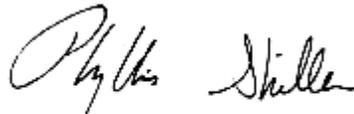
Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.  
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**Phyllis Shiller, Laboratory Director**

**June 20, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 20, 2013

FOR: Attn: Mr. Charles B. Sosik, P.G.  
 Environmental Business Consultants  
 1808 Middle Country Rd  
 Ridge NY 11961-2406

## Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 06/10/13                      0:00  
 06/13/13                      16:14

## Laboratory Data

SDG ID: GBD91419  
 Phoenix ID: BD91420

Project ID: 82 THROOP AVE  
 Client ID: GRAB

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	06/17/13	SW	E160.3
Field Extraction	Completed			06/10/13		SW5035

## Volatiles

1,1,1,2-Tetrachloroethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,1,1-Trichloroethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	06/17/13	H/J	SW8260
1,1,2-Trichloroethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,1-Dichloroethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,1-Dichloroethene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,1-Dichloropropene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,2,3-Trichloropropane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,2-Dibromoethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,2-Dichlorobenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,2-Dichloroethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,2-Dichloropropane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,3-Dichlorobenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,3-Dichloropropane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
1,4-Dichlorobenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
2,2-Dichloropropane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
2-Chlorotoluene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
2-Hexanone	ND	22	ug/Kg	06/17/13	H/J	SW8260
2-Isopropyltoluene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
4-Chlorotoluene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260

Client ID: GRAB

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	22	ug/Kg	06/17/13	H/J	SW8260
Acetone	ND	27	ug/Kg	06/17/13	H/J	SW8260
Acrylonitrile	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Benzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Bromobenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Bromochloromethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Bromodichloromethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Bromoform	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Bromomethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Carbon Disulfide	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Carbon tetrachloride	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Chlorobenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Chloroethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Chloroform	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Chloromethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Dibromochloromethane	ND	2.7	ug/Kg	06/17/13	H/J	SW8260
Dibromomethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Dichlorodifluoromethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Ethylbenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Hexachlorobutadiene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Isopropylbenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
m&p-Xylene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	06/17/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	8.9	ug/Kg	06/17/13	H/J	SW8260
Methylene chloride	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Naphthalene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
n-Butylbenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
n-Propylbenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
o-Xylene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
p-Isopropyltoluene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
sec-Butylbenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Styrene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
tert-Butylbenzene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Tetrachloroethene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	8.9	ug/Kg	06/17/13	H/J	SW8260
Toluene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Total Xylenes	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	8.9	ug/Kg	06/17/13	H/J	SW8260
Trichloroethene	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Trichlorofluoromethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Trichlorotrifluoroethane	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
Vinyl chloride	ND	4.5	ug/Kg	06/17/13	H/J	SW8260
<b>QA/QC Surrogates</b>						
% 1,2-dichlorobenzene-d4	97		%	06/17/13	H/J	70 - 130 %
% Bromofluorobenzene	103		%	06/17/13	H/J	70 - 130 %
% Dibromofluoromethane	109		%	06/17/13	H/J	70 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	93		%	06/17/13	H/J	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

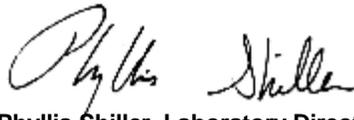
**Comments:**

%Solids assumed 100%

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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**Phyllis Shiller, Laboratory Director**

**June 20, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
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# QA/QC Report

June 20, 2013

## QA/QC Data

SDG I.D.: GBD91419

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 235051, QC Sample No: BD90486 (BD91419)

### ICP Metals - TCLP Extraction

Arsenic	BRL	<0.10	<0.10	NC	103	104	1.0	98.8	96.4	2.5	75 - 125	20
Barium	BRL	0.15	0.15	0	98.4	99.2	0.8	98.2	96.0	2.3	75 - 125	20
Cadmium	BRL	0.105	0.109	3.70	91.6	92.4	0.9	93.1	91.0	2.3	75 - 125	20
Chromium	BRL	<0.10	<0.10	NC	93.2	93.9	0.7	94.6	92.4	2.4	75 - 125	20
Lead	BRL	<0.10	<0.10	NC	92.8	93.1	0.3	95.6	93.4	2.3	75 - 125	20
Selenium	BRL	<0.10	<0.10	NC	109	110	0.9	102	99.9	2.1	75 - 125	20
Silver	BRL	<0.10	<0.10	NC	101	101	0.0	97.1	94.7	2.5	75 - 125	20

QA/QC Batch 235323, QC Sample No: BD90992 (BD91419)

Mercury - Water	BRL	<0.0002	<0.0002	NC	114	112	1.8	109	109	0.0	70 - 130	20
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

QA/QC Batch 235262, QC Sample No: BD91080 (BD91419)

### ICP Metals - Soil

Aluminum	BRL	10900	11400	4.50	117	119	1.7	NC	NC	NC	75 - 125	30
Antimony	BRL	<3.7	<3.4	NC	109	115	5.4	83.3	83.2	0.1	75 - 125	30
Arsenic	BRL	1.7	1.79	NC	93.7	97.1	3.6	89.3	90.3	1.1	75 - 125	30
Barium	BRL	135	126	6.90	104	108	3.8	92.8	82.7	11.5	75 - 125	30
Beryllium	BRL	0.36	0.33	NC	101	105	3.9	94.9	94.4	0.5	75 - 125	30
Cadmium	BRL	0.47	0.48	NC	92.8	97.8	5.2	89.2	89.2	0.0	75 - 125	30
Calcium	BRL	8140	8440	3.60	93.3	96.3	3.2	NC	NC	NC	75 - 125	30
Chromium	BRL	31.4	34.7	10.0	103	107	3.8	96.7	98.3	1.6	75 - 125	30
Cobalt	BRL	5.56	6.02	7.90	98.6	103	4.4	93.6	96.0	2.5	75 - 125	30
Copper	BRL	101	136	29.5	105	110	4.7	104	106	1.9	75 - 125	30
Iron	BRL	18100	18500	2.20	107	112	4.6	NC	NC	NC	75 - 125	30
Lead	BRL	27.3	30.8	12.0	97.1	102	4.9	91.1	90.3	0.9	75 - 125	30
Magnesium	BRL	6040	6880	13.0	96.4	101	4.7	NC	NC	NC	75 - 125	30
Manganese	BRL	301	320	6.10	101	107	5.8	118	122	3.3	75 - 125	30
Nickel	BRL	16.7	24.7	38.6	98.6	104	5.3	94.6	94.3	0.3	75 - 125	30
Potassium	BRL	4920	4860	1.20	109	112	2.7	NC	NC	NC	75 - 125	30
Selenium	BRL	<1.5	<1.4	NC	75.5	79.9	5.7	92.8	95.5	2.9	75 - 125	30
Silver	BRL	<0.37	<0.34	NC	97.7	102	4.3	98.3	97.8	0.5	75 - 125	30
Sodium	BRL	477	475	0.40	113	114	0.9	112	>130	NC	75 - 125	30
Thallium	BRL	<3.3	<3.0	NC	99.9	103	3.1	93.4	93.4	0.0	75 - 125	30
Vanadium	BRL	35.2	38.3	8.40	107	111	3.7	98.5	99.7	1.2	75 - 125	30
Zinc	BRL	66.3	70.0	5.40	93.7	98.0	4.5	93.2	92.2	1.1	75 - 125	30

QA/QC Batch 235321, QC Sample No: BD91397 (BD91419)

Mercury - Soil	BRL	0.08	<0.08	NC	90.3	105	15.1	114	107	6.3	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

## QA/QC Data

SDG I.D.: GBD91419

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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m = This parameter is outside laboratory ms/msd specified recovery limits.

r = This parameter is outside laboratory rpd specified recovery limits.



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# QA/QC Report

June 20, 2013

## QA/QC Data

SDG I.D.: GBD91419

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 235043, QC Sample No: BD90525 (BD91419)												
Flash Point		>200	>200	NC	100						85 - 115	30
QA/QC Batch 235314, QC Sample No: BD91079 (BD91419)												
Reactivity Cyanide	BRL	<6.6	<6.9	NC	98.3						85 - 115	30
QA/QC Batch 235374, QC Sample No: BD91396 (BD91419)												
pH - Soil		5.56	5.53	0.50	97.6						85 - 115	20



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# QA/QC Report

June 20, 2013

## QA/QC Data

SDG I.D.: GBD91419

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 234991, QC Sample No: BD90643 (BD91419)									
<u>Pesticides - Soil</u>									
4,4' -DDD	ND	75	69	8.3	91	88	3.4	40 - 140	30
4,4' -DDE	ND	81	81	0.0	80	75	6.5	40 - 140	30
4,4' -DDT	ND	91	75	19.3	85	79	7.3	40 - 140	30
a-BHC	ND	79	83	4.9	79	78	1.3	40 - 140	30
a-Chlordane	ND	80	84	4.9	81	76	6.4	40 - 140	30
Alachlor	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
Aldrin	ND	82	85	3.6	77	72	6.7	40 - 140	30
b-BHC	ND	78	81	3.8	78	76	2.6	40 - 140	30
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
d-BHC	ND	78	82	5.0	78	73	6.6	40 - 140	30
Dieldrin	ND	93	85	9.0	83	78	6.2	40 - 140	30
Endosulfan I	ND	77	84	8.7	71	73	2.8	40 - 140	30
Endosulfan II	ND	83	84	1.2	85	78	8.6	40 - 140	30
Endosulfan sulfate	ND	77	73	5.3	85	77	9.9	40 - 140	30
Endrin	ND	97	90	7.5	85	78	8.6	40 - 140	30
Endrin aldehyde	ND	80	78	2.5	87	78	10.9	40 - 140	30
Endrin ketone	ND	78	78	0.0	89	82	8.2	40 - 140	30
g-BHC	ND	79	83	4.9	79	76	3.9	40 - 140	30
g-Chlordane	ND	90	86	4.5	87	80	8.4	40 - 140	30
Heptachlor	ND	78	82	5.0	76	73	4.0	40 - 140	30
Heptachlor epoxide	ND	90	96	6.5	88	82	7.1	40 - 140	30
Methoxychlor	ND	76	81	6.4	93	84	10.2	40 - 140	30
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
% DCBP	83	91	91	0.0	104	97	7.0	30 - 150	30
% TCMX	75	99	102	3.0	98	97	1.0	30 - 150	30
QA/QC Batch 235244, QC Sample No: BD91419 (BD91419)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	84	77	8.7	95	81	15.9	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	89	81	9.4	91	79	14.1	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	58	79	74	6.5	95	87	8.8	30 - 150	30
% TCMX (Surrogate Rec)	67	92	85	7.9	80	79	1.3	30 - 150	30

## QA/QC Data

SDG I.D.: GBD91419

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 235270, QC Sample No: BD91448 (BD91419)										
<b>Semivolatiles - Soil</b>										
1,2,4,5-Tetrachlorobenzene	ND	85	86	1.2	90	92	2.2	30 - 130	30	
1,2,4-Trichlorobenzene	ND	80	83	3.7	87	87	0.0	30 - 130	30	
1,2-Dichlorobenzene	ND	80	81	1.2	84	83	1.2	30 - 130	30	
1,2-Diphenylhydrazine	ND	86	85	1.2	91	90	1.1	30 - 130	30	
1,3-Dichlorobenzene	ND	80	81	1.2	83	83	0.0	30 - 130	30	
1,4-Dichlorobenzene	ND	79	80	1.3	83	82	1.2	30 - 130	30	
2,4,5-Trichlorophenol	ND	91	92	1.1	101	102	1.0	30 - 130	30	
2,4,6-Trichlorophenol	ND	92	91	1.1	101	101	0.0	30 - 130	30	
2,4-Dichlorophenol	ND	88	89	1.1	96	94	2.1	30 - 130	30	
2,4-Dimethylphenol	ND	54	53	1.9	56	55	1.8	30 - 130	30	
2,4-Dinitrophenol	ND	23	<5	NC	<5	<5	NC	30 - 130	30	I,m
2,4-Dinitrotoluene	ND	90	91	1.1	99	98	1.0	30 - 130	30	
2,6-Dinitrotoluene	ND	90	91	1.1	99	98	1.0	30 - 130	30	
2-Chloronaphthalene	ND	86	87	1.2	93	92	1.1	30 - 130	30	
2-Chlorophenol	ND	83	83	0.0	88	87	1.1	30 - 130	30	
2-Methylnaphthalene	ND	86	85	1.2	90	90	0.0	30 - 130	30	
2-Methylphenol (o-cresol)	ND	78	78	0.0	82	80	2.5	30 - 130	30	
2-Nitroaniline	ND	142	139	2.1	150	148	1.3	30 - 130	30	I,m
2-Nitrophenol	ND	86	82	4.8	92	91	1.1	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	83	82	1.2	87	85	2.3	30 - 130	30	
3,3'-Dichlorobenzidine	ND	146	149	2.0	>150	>150	NC	30 - 130	30	I,m
3-Nitroaniline	ND	107	109	1.9	114	115	0.9	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	71	34	70.5	52	45	14.4	30 - 130	30	r
4-Bromophenyl phenyl ether	ND	93	93	0.0	104	104	0.0	30 - 130	30	
4-Chloro-3-methylphenol	ND	90	89	1.1	97	96	1.0	30 - 130	30	
4-Chloroaniline	ND	60	60	0.0	62	62	0.0	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	92	93	1.1	99	100	1.0	30 - 130	30	
4-Nitroaniline	ND	91	92	1.1	99	97	2.0	30 - 130	30	
4-Nitrophenol	ND	91	90	1.1	86	79	8.5	30 - 130	30	
Acenaphthene	ND	85	84	1.2	90	89	1.1	30 - 130	30	
Acenaphthylene	ND	86	87	1.2	93	93	0.0	30 - 130	30	
Acetophenone	ND	85	85	0.0	90	88	2.2	30 - 130	30	
Aniline	ND	91	88	3.4	89	87	2.3	30 - 130	30	
Anthracene	ND	91	90	1.1	100	99	1.0	30 - 130	30	
Benz(a)anthracene	ND	94	94	0.0	104	103	1.0	30 - 130	30	
Benzidine	ND	61	60	1.7	38	40	5.1	30 - 130	30	
Benzo(a)pyrene	ND	82	82	0.0	93	92	1.1	30 - 130	30	
Benzo(b)fluoranthene	ND	91	92	1.1	104	104	0.0	30 - 130	30	
Benzo(ghi)perylene	ND	94	95	1.1	106	103	2.9	30 - 130	30	
Benzo(k)fluoranthene	ND	96	94	2.1	107	105	1.9	30 - 130	30	
Benzyl butyl phthalate	ND	96	97	1.0	107	107	0.0	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	86	87	1.2	91	90	1.1	30 - 130	30	
Bis(2-chloroethyl)ether	ND	80	81	1.2	85	83	2.4	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	82	81	1.2	84	83	1.2	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	91	94	3.2	103	101	2.0	30 - 130	30	
Carbazole	ND	103	102	1.0	115	114	0.9	30 - 130	30	
Chrysene	ND	92	93	1.1	102	102	0.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	96	97	1.0	109	107	1.9	30 - 130	30	
Dibenzofuran	ND	90	90	0.0	96	96	0.0	30 - 130	30	
Diethyl phthalate	ND	90	89	1.1	97	97	0.0	30 - 130	30	

QA/QC Data

SDG I.D.: GBD91419

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dimethylphthalate	ND	89	90	1.1	97	97	0.0	30 - 130	30
Di-n-butylphthalate	ND	89	89	0.0	101	102	1.0	30 - 130	30
Di-n-octylphthalate	ND	87	89	2.3	96	96	0.0	30 - 130	30
Fluoranthene	ND	96	93	3.2	110	110	0.0	30 - 130	30
Fluorene	ND	92	92	0.0	99	99	0.0	30 - 130	30
Hexachlorobenzene	ND	89	89	0.0	100	99	1.0	30 - 130	30
Hexachlorobutadiene	ND	82	84	2.4	88	88	0.0	30 - 130	30
Hexachlorocyclopentadiene	ND	77	80	3.8	82	82	0.0	30 - 130	30
Hexachloroethane	ND	81	81	0.0	83	84	1.2	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	97	97	0.0	109	107	1.9	30 - 130	30
Isophorone	ND	86	87	1.2	92	91	1.1	30 - 130	30
Naphthalene	ND	85	86	1.2	91	90	1.1	30 - 130	30
Nitrobenzene	ND	83	82	1.2	87	85	2.3	30 - 130	30
N-Nitrosodimethylamine	ND	76	79	3.9	82	83	1.2	30 - 130	30
N-Nitrosodi-n-propylamine	ND	84	84	0.0	89	86	3.4	30 - 130	30
N-Nitrosodiphenylamine	ND	101	102	1.0	109	109	0.0	30 - 130	30
Pentachloronitrobenzene	ND	91	89	2.2	102	102	0.0	30 - 130	30
Pentachlorophenol	ND	77	56	31.6	104	103	1.0	30 - 130	30
Phenanthrene	ND	92	93	1.1	103	101	2.0	30 - 130	30
Phenol	ND	83	84	1.2	89	87	2.3	30 - 130	30
Pyrene	ND	95	93	2.1	109	110	0.9	30 - 130	30
Pyridine	ND	64	68	6.1	68	69	1.5	30 - 130	30
% 2,4,6-Tribromophenol	72	91	87	4.5	83	71	15.6	30 - 130	30
% 2-Fluorobiphenyl	83	85	86	1.2	73	62	16.3	30 - 130	30
% 2-Fluorophenol	81	85	83	2.4	71	59	18.5	30 - 130	30
% Nitrobenzene-d5	81	81	81	0.0	69	57	19.0	30 - 130	30
% Phenol-d5	82	83	83	0.0	71	60	16.8	30 - 130	30
% Terphenyl-d14	87	101	97	4.0	89	77	14.5	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 236104, QC Sample No: BD91962 (BD91420)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	106	106	0.0	98	99	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	105	102	2.9	97	99	2.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	101	104	2.9	99	99	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	106	109	2.8	97	100	3.0	70 - 130	30
1,1-Dichloroethane	ND	104	102	1.9	98	101	3.0	70 - 130	30
1,1-Dichloroethene	ND	102	100	2.0	69	67	2.9	70 - 130	30
1,1-Dichloropropene	ND	98	100	2.0	98	98	0.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	104	105	1.0	99	102	3.0	70 - 130	30
1,2,3-Trichloropropane	ND	94	98	4.2	90	92	2.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	99	99	0.0	97	100	3.0	70 - 130	30
1,2,4-Trimethylbenzene	ND	102	103	1.0	100	100	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	108	116	7.1	95	101	6.1	70 - 130	30
1,2-Dibromoethane	ND	104	107	2.8	98	100	2.0	70 - 130	30
1,2-Dichlorobenzene	ND	103	102	1.0	100	101	1.0	70 - 130	30
1,2-Dichloroethane	ND	99	103	4.0	93	95	2.1	70 - 130	30
1,2-Dichloropropane	ND	105	105	0.0	101	101	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	102	102	0.0	101	100	1.0	70 - 130	30
1,3-Dichlorobenzene	ND	101	102	1.0	99	100	1.0	70 - 130	30
1,3-Dichloropropane	ND	103	103	0.0	97	98	1.0	70 - 130	30

## QA/QC Data

SDG I.D.: GBD91419

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,4-Dichlorobenzene	ND	102	102	0.0	99	99	0.0	70 - 130	30	
2,2-Dichloropropane	ND	101	100	1.0	94	96	2.1	70 - 130	30	
2-Chlorotoluene	ND	105	106	0.9	101	101	0.0	70 - 130	30	
2-Hexanone	ND	100	102	2.0	87	91	4.5	70 - 130	30	
2-Isopropyltoluene	ND	103	104	1.0	101	102	1.0	70 - 130	30	
4-Chlorotoluene	ND	99	100	1.0	99	99	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	103	105	1.9	93	98	5.2	70 - 130	30	
Acetone	ND	87	92	5.6	75	73	2.7	70 - 130	30	
Acrylonitrile	ND	100	106	5.8	99	100	1.0	70 - 130	30	
Benzene	ND	99	101	2.0	98	99	1.0	70 - 130	30	
Bromobenzene	ND	104	104	0.0	101	100	1.0	70 - 130	30	
Bromochloromethane	ND	105	104	1.0	99	101	2.0	70 - 130	30	
Bromodichloromethane	ND	109	105	3.7	96	100	4.1	70 - 130	30	
Bromoform	ND	107	113	5.5	92	95	3.2	70 - 130	30	
Bromomethane	ND	96	93	3.2	47	46	2.2	70 - 130	30	m
Carbon Disulfide	ND	93	91	2.2	62	61	1.6	70 - 130	30	m
Carbon tetrachloride	ND	102	107	4.8	97	100	3.0	70 - 130	30	
Chlorobenzene	ND	102	104	1.9	99	100	1.0	70 - 130	30	
Chloroethane	ND	102	100	2.0	<40	<40	NC	70 - 130	30	m
Chloroform	ND	103	102	1.0	98	103	5.0	70 - 130	30	
Chloromethane	ND	98	97	1.0	93	92	1.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	104	106	1.9	98	97	1.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	106	106	0.0	98	101	3.0	70 - 130	30	
Dibromochloromethane	ND	107	108	0.9	96	98	2.1	70 - 130	30	
Dibromomethane	ND	104	106	1.9	96	99	3.1	70 - 130	30	
Dichlorodifluoromethane	ND	92	93	1.1	90	92	2.2	70 - 130	30	
Ethylbenzene	ND	98	100	2.0	99	99	0.0	70 - 130	30	
Hexachlorobutadiene	ND	100	101	1.0	103	104	1.0	70 - 130	30	
Isopropylbenzene	ND	106	107	0.9	102	102	0.0	70 - 130	30	
m&p-Xylene	ND	100	101	1.0	100	101	1.0	70 - 130	30	
Methyl ethyl ketone	ND	94	96	2.1	85	92	7.9	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	95	97	2.1	96	98	2.1	70 - 130	30	
Methylene chloride	ND	104	103	1.0	95	95	0.0	70 - 130	30	
Naphthalene	ND	106	110	3.7	99	104	4.9	70 - 130	30	
n-Butylbenzene	ND	103	104	1.0	101	103	2.0	70 - 130	30	
n-Propylbenzene	ND	104	104	0.0	102	102	0.0	70 - 130	30	
o-Xylene	ND	105	107	1.9	100	100	0.0	70 - 130	30	
p-Isopropyltoluene	ND	102	103	1.0	103	102	1.0	70 - 130	30	
sec-Butylbenzene	ND	102	103	1.0	103	102	1.0	70 - 130	30	
Styrene	ND	100	102	2.0	98	97	1.0	70 - 130	30	
tert-Butylbenzene	ND	106	106	0.0	103	103	0.0	70 - 130	30	
Tetrachloroethene	ND	100	101	1.0	99	100	1.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	106	107	0.9	96	100	4.1	70 - 130	30	
Toluene	ND	101	104	2.9	99	101	2.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	104	103	1.0	95	93	2.1	70 - 130	30	
trans-1,3-Dichloropropene	ND	105	106	0.9	96	99	3.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	109	112	2.7	94	97	3.1	70 - 130	30	
Trichloroethene	ND	103	106	2.9	96	99	3.1	70 - 130	30	
Trichlorofluoromethane	ND	103	100	3.0	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	105	103	1.9	76	71	6.8	70 - 130	30	
Vinyl chloride	ND	109	107	1.9	99	99	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	100	101	1.0	101	100	1.0	70 - 130	30	
% Bromofluorobenzene	97	97	99	2.0	96	97	1.0	70 - 130	30	

## QA/QC Data

SDG I.D.: GBD91419

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Dibromofluoromethane	103	107	106	0.9	104	109	4.7	70 - 130	30
% Toluene-d8	97	100	103	3.0	101	101	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 235499, QC Sample No: BD92378 (BD91419)

### TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	67			72	73	1.4	60 - 120	30
% n-Pentacosane	65	69			73	75	2.7	50 - 150	30

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.

m = This parameter is outside laboratory ms/msd specified recovery limits.

r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

June 20, 2013

# Sample Criteria Exceedences Report

## GBD91419 - EBC

Requested Criteria: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD91419	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1100	270	1000	1000	ug/Kg
BD91419	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	1000	1000	ug/Kg
BD91419	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1300	270	1000	1000	ug/Kg
BD91419	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	270	1000	1000	ug/Kg
BD91419	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	270	1000	1000	ug/Kg
BD91419	\$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	24	7.4	3.3	3.3	ug/Kg
BD91419	\$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	10	1.2	5	5	ug/Kg
BD91419	\$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	7.4	3.3	3.3	ug/Kg
BD91419	\$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	77	7.4	3.3	3.3	ug/Kg
BD91419	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	18.7	0.40	1	1	mg/Kg
BD91419	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	1.93	0.09	0.81	0.81	mg/Kg
BD91419	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.93	0.09	0.81	0.81	mg/Kg
BD91419	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.93	0.09	0.18	0.18	mg/Kg
BD91419	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	338	4.0	63	63	mg/Kg
BD91419	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	207	4.0	109	109	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



# NY Temperature Narration

June 20, 2013

SDG I.D.: GBD91419

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The samples in this delivery group were received at 4°C.  
(Note acceptance criteria is above freezing up to 6°C)





GBD 91419

**Shannon - Phoenixlabs**

---

**From:** Kevin Brussee [kbrussee@ebcincny.com]

**Sent:** Monday, June 17, 2013 01:05 PM

**To:** 'Shannon - Phoenixlabs'

**Subject:** RE: 82 THROOP AVE

Run the VOCs

**Kevin Brussee**  
**Project Manager**

*EBC*

*Environmental Business Consultants*

**Ph: 631.504.6000 ext. 114**

**Fax: 631.924.2870**

**Cell: 631.338.1749**

**Kbrussee@ebcincny.com**

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**From:** Shannon - Phoenixlabs [mailto:shannon@phoenixlabs.com]

**Sent:** Monday, June 17, 2013 1:02 PM

**To:** 'Kevin Brussee'

**Subject:** RE: 82 THROOP AVE

Do you still want me to run Voc's on the grab or cancel it?

---

**From:** Kevin Brussee [mailto:kbrussee@ebcincny.com]

**Sent:** Monday, June 17, 2013 08:09 AM

**To:** 'Shannon - Phoenixlabs'

**Subject:** RE: 82 THROOP AVE

Please run TPH on the composite sample.

**Kevin Brussee**  
**Project Manager**

*EBC*

*Environmental Business Consultants*

**Ph: 631.504.6000 ext. 114**

**Fax: 631.924.2870**

**Cell: 631.338.1749**

**Kbrussee@ebcincny.com**

---

**From:** Shannon - Phoenixlabs [mailto:shannon@phoenixlabs.com]

**Sent:** Friday, June 14, 2013 10:42 AM

**To:** 'Kevin Brussee'

**Cc:** 'Charles Sosik'

**Subject:** 82 THROOP AVE

We received samples yesterday and on the grab sample, you are requesting TPH but we only received High & Low voa vials. Please let me know if you wanted this analyzed for Voc's. Thank you.

Shannon Wilhelm  
Phoenix Environmental Labs

6/17/2013

**APPENDIX I**

***Soil Disposal Acceptance Letter***

June 27, 2013

Mr. Simon Dushinsky  
HSD Construction  
505 Flushing Ave # 10  
Brooklyn, NY 11205

*RE: Letter of Acceptance for 82 Throop Avenue, Brooklyn, NY 11211*

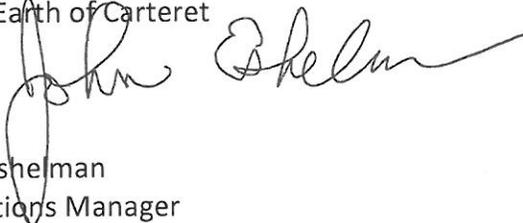
Dear Mr. Dushinsky,

Clean Earth of Carteret, Inc. (CEC) is pleased to provide you with this acceptance letter for the soil material being generated from the site referenced above. We reviewed the analytical results performed Phoenix (Phoenix I.D.: BD91419) for the above referenced site. Based upon the review of the data and profile provided, CEC can accept the non-hazardous petroleum impacted soil being generated from the site. CEC's acceptance criteria limits us to accept only Non Hazardous petroleum (<1% by volume) impacted soils into our facility. Any soils with free petroleum product or liquids, sludge, or hazardous waste cannot be accepted.

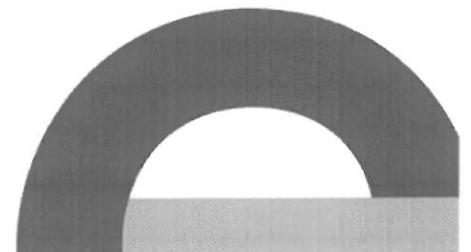
Currently we have enough analysis on hand to cover estimated quantity of material. In the event the volume exceeds approved tonnages, our facility is permitted to analyze missing parameters by collecting soil samples from incoming loads. Please note that TPH analysis (every 150 Tons) will be required to comply with CEC's Class B permit. In the essence of saving time, CEC will collect the additional TPH samples as required upon arrival at the facility to meet the CEC analytical requirements for an additional conditionally approved volume of (pending TPH results) 1050 tons. CEC will amend the invoice accordingly.

If you should have any questions or require any additional information, please call me at (732) 541-8909.

Sincerely,  
Clean Earth of Carteret



John Eshelman  
Operations Manager



**APPENDIX J**

***Manifests & Scale Tickets***

Clean Earth of Carteret  
**Profile Report**

Transactions from 08/02/2013 through 08/02/2013  
Inbound Tickets Only  
Third Party and Intercompany Customers  
Recycle and Disposal Material  
Sent and Unsent Tickets

Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Bill. Units	Cubic Yards	Tons	Estimated Tons
<b>133071133 - Throop Wallabout Realty/82 Throop</b>									
307000286726	08/02/13	MOON02	I	173662	HSD812-HSD CONSTRUCTION LLC	26.060 Tn	0.00	26.06	0.00
307000286752	08/02/13	LUISITO969	I	173661	HSD812-HSD CONSTRUCTION LLC	26.090 Tn	0.00	26.09	0.00
307000286763	08/02/13	NICK32	I	173653	HSD812-HSD CONSTRUCTION LLC	27.960 Tn	0.00	27.96	0.00
307000286764	08/02/13	NICK28	I	173656	HSD812-HSD CONSTRUCTION LLC	29.830 Tn	0.00	29.83	0.00
307000286766	08/02/13	NICK22	I	173670	HSD812-HSD CONSTRUCTION LLC	30.060 Tn	0.00	30.06	0.00
<b>133071133 - Throop Wallabout Realty/82 Throop</b>							0.00	140.00	0.00
<i>5 tickets and 5 transactions</i>									

**Report Grand Totals**

*5 tickets and 5 transactions*

0.00	140.00	0.00
------	--------	------

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8989 Fax: (732) 541-8105

Ticket: 307000286726

	Date	Time	Scale
In:	8/2/2013	11:36:07	Scale 1
Out:	8/2/2013	11:36:18	P.T.

Manifest: 173662  
Vehicle ID: MOON02

	Lbs	Tns
Gross:	82260	41.13
Tare:	30140	15.07
Net:	52120	26.06

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Kings	Soil Treatment Type II	26.06	Tns
-------	------------------------	-------	-----

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Driver: \_\_\_\_\_  
Angel

Facility: \_\_\_\_\_  
Lukasz Ceglarek



001 173662  
Manifest #

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
 24 Middlesex Avenue  
 Carteret, NJ 07008  
 Ph: 732-541-8909
- Clean Earth of Maryland  
 1469 Oak Ridge Place  
 Hagerstown, MD 21740  
 Ph: 301-791-6220
- Clean Earth of New Castle  
 94 Pyles Lane  
 New Castle, DE 19720  
 Ph: 302-427-6633
- Other \_\_\_\_\_
- Clean Earth of Philadelphia  
 3201 S. 61st Street  
 Philadelphia, PA 19153  
 Ph: 215-724-5520
- Clean Earth of West Virginia  
 3815 South State Route 2  
 Friendly, WV 26146  
 Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
 7 Steel Road East  
 Morrisville, PA 19067  
 Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>Throop Wallabout Realty/82 Throop</u> <u>82 Throop Ave, Brooklyn NY 11211</u>	GROSS WEIGHT:	
	<input type="checkbox"/> Tons <input type="checkbox"/> Yards	
GENERATOR'S PHONE: _____	TARE WEIGHT:	
	<input type="checkbox"/> Tons <input type="checkbox"/> Yards	
	NET WEIGHT:	
	<input type="checkbox"/> Tons <input type="checkbox"/> Yards	

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

Non hazardous contaminated soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: \_\_\_\_\_ Title: Consolidator  
 Signature: \_\_\_\_\_ Date and Time: 8-2-13 8:15

**TRANSPORTER**

Company: AMV/Dabin Trucking Inc Phone Number: 972-252-1800/ NJ864  
 Address: 180 Drake Lane, Ledgewood, NJ 07652 Truck # and License Plate: AP357L NJ  
 Driver: (Moon Light - EV) Angel L Lema SW Haulers Permit #: \_\_\_\_\_  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Angel Lema Date and Time: 08-02-13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: \_\_\_\_\_

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: \_\_\_\_\_ Date and Time: \_\_\_\_\_

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000286752

	Date	Time	Scale
In:	8/2/2013	12:30:20	Scale 1
Out:	8/2/2013	12:35:21	P.T.

Manifest: 173661  
Vehicle ID: LUISIT0969

	Lbs	Tns
Gross:	79360	39.68
Tare:	27100	13.59
Net:	52100	26.09

Customer: HSD CONSTRUCTION LLC

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Facility Approval#: 133071133  
Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	26.09	Tns

Comments:

Driver: \_\_\_\_\_  
Luis

Facility: \_\_\_\_\_  
Lukasz Ceglarek



002  
Manifest # 173661

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Clean Earth of Carteret<br>24 Middlesex Avenue<br>Carteret, NJ 07008<br>Ph: 732-541-8909         | <input type="checkbox"/> Clean Earth of Maryland<br>1469 Oak Ridge Place<br>Hagerstown, MD 21740<br>Ph: 301-791-6220        | <input type="checkbox"/> Clean Earth of New Castle<br>94 Pyles Lane<br>New Castle, DE 19720<br>Ph: 302-427-6633                  | <input type="checkbox"/> Other<br>_____<br>_____<br>_____ |
| <input type="checkbox"/> Clean Earth of Philadelphia<br>3201 S. 61st Street<br>Philadelphia, PA 19153<br>Ph: 215-724-5520 | <input type="checkbox"/> Clean Earth of West Virginia<br>3815 South State Route 2<br>Friendly, WV 26146<br>Ph: 304-652-8580 | <input type="checkbox"/> Clean Earth of Southeast Pennsylvania<br>7 Steel Road East<br>Morrisville, PA 19067<br>Ph: 215-428-1700 |   |

### Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>Throop Wallabout Realty/82 Throop</u> <u>82 Throop Ave, Brooklyn NY 11211</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

*non-hazardous contaminated soil*

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: \_\_\_\_\_ Title: Council  
 Signature: [Signature] Date and Time: 8-2-13

**TRANSPORTER**

Company: AMV/Dabin Trucking Inc Phone Number: 972-252-1800/NJ864  
 Address: 190 Drake Lane, Ledgewood, NJ 07852 Truck # and License Plate: AN206Z  
 Driver: LOUIS BUSTAMANTE SW Haulers Permit #: \_\_\_\_\_  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 8-2-13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: 8-2-13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 8/2/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000206763

	Date	Time	Scale
In:	8/2/2013	12:52:48	Scale 1
Out:	8/2/2013	12:53:16	P.T.

Manifest: 173653  
Vehicle ID: NICK32

	Lbs	Tns
Gross:	82860	41.43
Tare:	26940	13.47
Net:	55920	27.96

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	27.96	Tns
Comment:			

Driver: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



003  
Manifest # 173653

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other \_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of West Virginia  
3815 South State Route 2  
Friendly, WV 26146  
Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

### Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT:
<u>Throop Wallabout Realty/82 Throop</u>	<input type="checkbox"/> Tons <input type="checkbox"/> Yards
<u>62 Throop Ave, Brooklyn NY 11211</u>	TARE WEIGHT:
GENERATOR'S PHONE: _____	<input type="checkbox"/> Tons <input type="checkbox"/> Yards
	NET WEIGHT:
	<input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

non haz. container noted seal

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [Signature] Title: Owner

Signature: [Signature] Date and Time: 8-2-13

**TRANSPORTER**

Company: AMV/Dabin Trucking Inc Phone Number: 732-252-1000 / NJ004

Address: 120 Drake Lane, Ledgewood, NJ 07852 Truck # and License Plate: 32 AP 619-D

Driver: \_\_\_\_\_ SW Haulers Permit #: \_\_\_\_\_ (applicable state permit #)

(Type or Print Clearly)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 08-02-13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 08-02-13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 8/2/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000286764

	Date	Time	Scale
In:	8/2/2013	12:53:29	Scale 1
Out:	8/2/2013	12:58:11	P.T.

Manifest: 173656  
Vehicle ID: NICK28

	Lbs	Tns
Gross:	85700	42.85
Tare:	26040	13.02
Net:	59660	29.83

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
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Kings	Soil Treatment Type II	29.83	Tns
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Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Drivers: \_\_\_\_\_  
Jorge

Facility: \_\_\_\_\_  
Lukasz Ceglarek



173656

Manifest #

GLOBAL JOB NUMBER: 130536 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other  
\_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of West Virginia  
3815 South State Route 2  
Friendly, WV 26146  
Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:  <u>Throop Wallabout Realty/82 Throop</u> <u>82 Throop Ave, Brooklyn NY 11211</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards	

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

*non hazardous soil*

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [Signature] Title: Call  
 Signature: [Signature] Date and Time: 8-2-13

**TRANSPORTER**

Company: AMV/Dahin Trucking Inc Phone Number: 972-252-1800/NL1884  
 Address: 100 Danks Lane, Edgewood, NJ 07027 Truck # and License Plate: #28 AN732R  
 Driver: [Signature] SW Haulers Permit #: \_\_\_\_\_ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 8-2-13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 8-2-13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 8/2/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: ~~307000~~ 296766

	Date	Time	Scale
In:	8/2/2013	12:55:31	Scale 1
Out:	8/2/2013	13:08:01	P.T.

Manifest: 173670  
Vehicle ID: NICK22

	Lbs	Tns
Gross:	85820	42.91
Tare:	25700	12.85
Net:	60120	30.06

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generators: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
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Kings	Soil Treatment Type II	30.06	Tns
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Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Driver: \_\_\_\_\_  
Luis

Facility: \_\_\_\_\_  
Lukasz Ceglarek



173670

Manifest #

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Other, Clean Earth of Philadelphia, Clean Earth of West Virginia, Clean Earth of Southeast Pennsylvania

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Throop Wallabout Realty/82 Throop 82 Throop Ave, Brooklyn NY 11211
GROSS WEIGHT: Tons Yards
TARE WEIGHT: Tons Yards
GENERATOR'S PHONE:
NET WEIGHT: Tons Yards

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

non-hazardous construction soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Title:
Signature: Date and Time: 8/2/13

TRANSPORTER

Company: AMV/Dabin Trucking Inc Phone Number: 972-252-1800/NJ864
Address: 190 Drake Lane, Ledgewood, NJ 07637 Truck # and License Plate: AP 1400
Driver: SW Haulers Permit #: NJPHADE/1105 # 22

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 8/2/13

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 8/2/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 8/2/13

Clean Earth of Carteret  
**Profile Report**

Transactions from 08/05/2013 through 08/05/2013  
Inbound Tickets Only  
Third Party and Intercompany Customers  
Recycle and Disposal Material  
Sent and Unsent Tickets  
Full Details

sRpPrf.rpt  
Profile: 133071133  
Site ID: 307

Ticket	Date	Truck	In / Out	Manifest	Customer	Bill. Units	Cubic Yards	Tons	Estimated Tons
<b>133071133 - Throop Wallabout Realty/82 Throop</b>									
307000286861	08/05/13	NICK32	I	173695	HSD812-HSD CONSTRUCTION LLC	29,870 Tn	0.00	29.87	0.00
307000286870	08/05/13	NICK24	I	173693	HSD812-HSD CONSTRUCTION LLC	27,580 Tn	0.00	27.58	0.00
307000286874	08/05/13	NICK22	I	173690	HSD812-HSD CONSTRUCTION LLC	26,470 Tn	0.00	26.47	0.00
307000286915	08/05/13	NICK5	I	173655	HSD812-HSD CONSTRUCTION LLC	32,230 Tn	0.00	32.23	0.00
307000286917	08/05/13	NAPOLI081	I	173657	HSD812-HSD CONSTRUCTION LLC	26,110 Tn	0.00	26.11	0.00
307000286994	08/05/13	NICK32	I	173697	HSD812-HSD CONSTRUCTION LLC	28,890 Tn	0.00	28.89	0.00
307000287004	08/05/13	NICK22	I	173691	HSD812-HSD CONSTRUCTION LLC	28,790 Tn	0.00	28.79	0.00
307000287005	08/05/13	NICK24	I	173692	HSD812-HSD CONSTRUCTION LLC	30,210 Tn	0.00	30.21	0.00
<b>133071133 - Throop Wallabout Realty/82 Throop</b>							<b>0.00</b>	<b>230.15</b>	<b>0.00</b>
<i>8 tickets and 8 transactions</i>									

**Report Grand Totals**  
*8 tickets and 8 transactions*

<b>0.00</b>	<b>230.15</b>	<b>0.00</b>
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Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8969 Fax: (732) 541-8105

Ticket: 307000206861

	Date	Time	Scale
In:	8/5/2013	00:49:20	Scale 1
Out:	8/5/2013	00:50:01	P.T.

Manifest: 173695  
Vehicle ID: NICK32

	Lbs	Tns
Gross:	86680	43.34
Tare:	26940	13.47
Net:	59740	29.87

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	29.87	Tns

Comments:

Drivers: \_\_\_\_\_  
Frey

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 173695

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Clean Earth of Carteret<br>24 Middlesex Avenue<br>Carteret, NJ 07008<br>Ph: 732-541-8909         | <input type="checkbox"/> Clean Earth of Maryland<br>1469 Oak Ridge Place<br>Hagerstown, MD 21740<br>Ph: 301-791-6220        | <input type="checkbox"/> Clean Earth of New Castle<br>94 Pyles Lane<br>New Castle, DE 19720<br>Ph: 302-427-6633                  | <input type="checkbox"/> Other<br>_____<br>_____<br>_____ |
| <input type="checkbox"/> Clean Earth of Philadelphia<br>3201 S. 61st Street<br>Philadelphia, PA 19153<br>Ph: 215-724-5520 | <input type="checkbox"/> Clean Earth of West Virginia<br>3815 South State Route 2<br>Friendly, WV 26146<br>Ph: 304-652-8580 | <input type="checkbox"/> Clean Earth of Southeast Pennsylvania<br>7 Steel Road East<br>Morrisville, PA 19067<br>Ph: 215-428-1700 |   |

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>Throop Wallabout Realty/82 Throop</u> <u>82 Throop Ave. Brooklyn NY 11211</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

non hazardous contaminated soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: M. W. [Signature] Title: Genl  
Signature: [Signature] Date and Time: 8/5/13

**TRANSPORTER**

Company: AMV/Dabin Trucking Inc Phone Number: 972-252-1800/ NJ884  
Address: 196 Drake Lane, Ledgewood, NJ 07852 Truck # and License Plate: 32 AP019D  
Driver: [Signature] SW Haulers Permit #: \_\_\_\_\_ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 08-05-13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: \_\_\_\_\_

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 8/5/13

CLEAN EARTH INTERNAL

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000206870

	Date	Time	Scale
In:	8/5/2013	09:20:54	Scale 1
Out:	8/5/2013	09:21:41	P.T.

Manifest: 173693  
Vehicle ID: NICK24

	Lbs	Tns
Gross:	81020	40.51
Tare:	25860	12.93
Net:	55160	27.58

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
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Kings	Soil Treatment Type II	27.58	Tns
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Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Codes: Petroleum Contaminated Soil

Comment:

Driver: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 173693

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other  
\_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of West Virginia  
3815 South State Route 2  
Friendly, WV 26146  
Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>Throop Wallabout Realty/82 Throop</u> <u>82 Throop Ave, Brooklyn NY 11211</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

*non hazardous soil*

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: *[Signature]* Title: *[Signature]*  
 Signature: \_\_\_\_\_ Date and Time: 8/5/13

**TRANSPORTER**

Company: AMV/Dabin Trucking Inc Phone Number: 972-252-1800/NJ864  
 Address: 100 Trade Lane Ledgewood, NJ 07852 Truck # and License Plate: 1002 # 24 JAN809F  
 Driver: J. ARETIS SW Haulers Permit #: \_\_\_\_\_  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: *[Signature]* Date and Time: 8/5/13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: \_\_\_\_\_  
 I hereby certify that the above named material has been accepted at the above referenced facility.  
 Authorized Signature: *[Signature]* Date and Time: 8/5/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000286874

	Date	Time	Scale
In:	8/5/2013	09:28:32	Scale 1
Out:	8/5/2013	09:34:12	P.T.

Manifest: 173690  
Vehicle ID: NICK22

	Lbs	Tns
Gross:	78640	39.32
Tare:	25700	12.85
Net:	52940	26.47

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bi5 Fac Waste Code: Petroleum Contaminated Soil	26.47	Tns

Comments:

Driver: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



173690

Manifest #

GLOBAL JOB NUMBER: 130536 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other \_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of West Virginia  
3815 South State Route 2  
Friendly, WV 26146  
Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

<b>GENERATOR'S NAME &amp; SITE ADDRESS:</b> <u>Throop Wallabout Realty/82 Throop</u> <u>82 Throop Ave, Brooklyn NY 11211</u>	<b>GROSS WEIGHT:</b> <input type="checkbox"/> Tons <input type="checkbox"/> Yards
<b>GENERATOR'S PHONE:</b> _____	<b>TARE WEIGHT:</b> <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	<b>NET WEIGHT:</b> <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**  
non hazardous comb soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [Signature] Title: Lab  
 Signature: [Signature] Date and Time: 8-5-13

**TRANSPORTER**

Company: AMV/Dabin Trucking Inc Phone Number: 972-252-1800/ NJ864  
 Address: 130 Drake Lane, Ledgewood, NJ 07652 Truck # and License Plate: DP 12/07  
 Driver: \_\_\_\_\_ SW Haulers Permit #: NJ105001/01 # 22  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 8/5/13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 8/5/13  
 I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 8/5/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000206915

	Date	Time	Scale
In:	8/5/2013	10:23:44	Manual W
Out:	8/5/2013	10:23:53	P.T.

Manifest: 173655  
Vehicle ID: NICK5

	Lbs	Tns
Gross:	90860	45.43
Tare:	26400	13.20
Net:	64460	32.23

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Kings	Soil Treatment Type II	32.23	Tns
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Contaminant Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comment:

Driver: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 173655

GLOBAL JOB NUMBER: 130536 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other \_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of West Virginia  
3815 South State Route 2  
Friendly, WV 26146  
Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:  <u>Throop Wallabout Realty/82 Throop</u> <u>82 Throop Ave, Brooklyn NY 11211</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

*non-hazardous construction debris*

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: *W. West* Title: *Owner*  
 Signature: *[Signature]* Date and Time: *8-5-13*

**TRANSPORTER**

Company: *AMV/Dabin Trucking Inc* Phone Number: *972 252 1800 / NJ 254*  
 Address: *1st Drake Lane, Ledgewood, NJ 07033* Truck # and License Plate: *AP 953 P*  
 Driver: *JULIO [Signature]* SW Haulers Permit #: \_\_\_\_\_ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: *[Signature]* Date and Time: *8-5-13*

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: \_\_\_\_\_  
 I hereby certify that the above named material has been accepted at the above referenced facility.  
 Authorized Signature: *[Signature]* Date and Time: *8/5/13*

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000286917

Date	Time	Scale
In: 8/5/2013	10:38:40	Scale 1
Out: 8/5/2013	10:39:18	P.T.

Manifest: 173657  
Vehicle ID: NAPOLI081

	Lbs	Tns
Gross:	79980	39.99
Tare:	27760	13.00
Net:	52220	26.11

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	26.11	Tns

Comment:

Driver: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 173657

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other \_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of West Virginia  
3815 South State Route 2  
Friendly, WV 26146  
Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:  <u>Throop Wallabout Realty/52 Throop</u> <u>52 Throop Ave, Brooklyn NY 11211</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

*non hazardous contaminated soil*

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: \_\_\_\_\_ Title: Consult  
Signature: \_\_\_\_\_ Date and Time: 5/5/13

**TRANSPORTER**

Company: AMV/Dahin Trucking Inc Phone Number: 972-252-1800/N 1864  
Address: \_\_\_\_\_ Truck # and License Plate: # 01 LP# AN7541W  
Driver: \_\_\_\_\_ SW Haulers Permit #: \_\_\_\_\_  
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: \_\_\_\_\_ Date and Time: 5/5/13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: \_\_\_\_\_

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: \_\_\_\_\_ Date and Time: 5/5/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000286994

	Date	Time	Scale
In:	8/5/2013	11:54:17	Scale 1
Out:	8/5/2013	13:27:13	P.T.

Manifest: 173697  
Vehicle ID: NICK32

	Lbs	Tns
Gross:	84720	42.36
Tare:	26940	13.47
Net:	57780	28.89

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Kings	Soil Treatment Type II	28.89	Tns
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Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Driver: \_\_\_\_\_  
Frey

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 173697

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other \_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of West Virginia  
3815 South State Route 2  
Friendly, WV 26146  
Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>Throop Wallabout Realty/82 Throop</u> <u>82 Throop Ave, Brooklyn NY 11211</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

nonhazardous contaminated soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Michael Title: owner  
 Signature: \_\_\_\_\_ Date and Time: 8/5/13

**TRANSPORTER**

Company: AMV/Dabin Trucking Inc Phone Number: 972-252-1800/NJ864  
 Address: 180 Drake Lane, Ledgewood, NJ 07052 Truck # and License Plate: 32 AP0197D  
 Driver: FRY SW Haulers Permit #: \_\_\_\_\_ (applicable state permit #)  
 (Type or Print Clearly)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: FRY Date and Time: 08-05-13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: 08/05/13  
 I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: \_\_\_\_\_ Date and Time: 8/5/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000207004  
Date: 8/5/2013 Time: 14:19:18 Scale: 1  
In: 8/5/2013 14:19:18 Scale: 1  
Out: 8/5/2013 14:20:58 P.T.  
Lbs Tns  
Gross: 83200 41.64  
Tare: 25700 12.85  
Net: 57500 28.79

Manifest: 173891  
Vehicle ID: NICK22

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	28.79	Tns

Comments:

Drivers: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 173691

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other  
\_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of West Virginia  
3815 South State Route 2  
Friendly, WV 26146  
Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>Throop Wallabout Realty/82 Throop</u> <u>82 Throop Ave, Brooklyn NY 11211</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

*non hazardous soil*

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: *[Signature]* Title: *Asst. Mgr.*  
 Signature: \_\_\_\_\_ Date and Time: *8/5/13*

**TRANSPORTER**

Company: AMV/Dabin Trucking Inc Phone Number: 972-252-1800/ N.1864  
 Address: 180 Drake Lane, Lakewood, NJ 07052 Truck # and License Plate: *AT 140 D*  
 Driver: \_\_\_\_\_ SW Haulers Permit #: *N104480100 22*  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: *[Signature]* Date and Time: *8/5/13*

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: *8/5/13*

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: *[Signature]* Date and Time: *8/5/13*

Clear Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000287005

	Date	Time	Scale
In:	8/5/2013	14:21:08	Scale 1
Out:	8/5/2013	14:21:41	P.T.

Manifest: 173692  
Vehicle ID: NICK24

	Lbs	Tns
Gross:	86200	43.14
Tare:	25860	12.93
Net:	60340	30.21

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	30.21	Tns

Comments:

Drivers: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



173692

Manifest #

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other  
\_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of West Virginia  
3815 South State Route 2  
Friendly, WV 26146  
Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <i>Thrupp Wallabout Realty/82 Thrupp</i> <i>82 Thrupp Ave, Brooklyn NY 11211</i>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: \_\_\_\_\_ Title: *Consult*

Signature: *[Signature]* Date and Time: *8/5/13*

**TRANSPORTER**

Company: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Address: \_\_\_\_\_ Truck # and License Plate: *PA 124/AW329P*

Driver: \_\_\_\_\_ SW Haulers Permit #: \_\_\_\_\_  
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: \_\_\_\_\_ Date and Time: *8/5/13*

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: \_\_\_\_\_

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: \_\_\_\_\_ Date and Time: *8/5/13*

CLEAN EARTH INTERNAL

Ticket	Date	Truck	In / Out	Manifest	Customer	Bill. Units	Cubic Yards	Tons	Estimated Tons
<b>133071133 - Throop Wallabout Realty/82 Throop</b>									
Global Job Number: 130636									
307000288269	08/13/13	JC10	I	657763	HSD812-HSD CONSTRUCTION LLC	29.270 Tn	0.00	29.27	0.00
307000288283	08/13/13	JC11	I	657764	HSD812-HSD CONSTRUCTION LLC	27.520 Tn	0.00	27.52	0.00
307000288291	08/13/13	JC9	I	657302	HSD812-HSD CONSTRUCTION LLC	28.940 Tn	0.00	28.94	0.00
307000288342	08/13/13	JC10	I	657761	HSD812-HSD CONSTRUCTION LLC	33.890 Tn	0.00	33.89	0.00
307000288354	08/13/13	JC11	I	783783	HSD812-HSD CONSTRUCTION LLC	29.960 Tn	0.00	29.96	0.00
307000288367	08/13/13	JC9	I	657762	HSD812-HSD CONSTRUCTION LLC	32.070 Tn	0.00	32.07	0.00
307000288399	08/13/13	JC9	I	261430	HSD812-HSD CONSTRUCTION LLC	29.910 Tn	0.00	29.91	0.00
307000288400	08/13/13	JC11	I	783784	HSD812-HSD CONSTRUCTION LLC	31.580 Tn	0.00	31.58	0.00
307000288401	08/13/13	JC10	I	657749	HSD812-HSD CONSTRUCTION LLC	32.280 Tn	0.00	32.28	0.00
							0.00	275.42	0.00

<b>Report Grand Totals</b>									
<i>9 tickets and 9 transactions</i>									
							0.00	275.42	0.00

*9 tickets and 9 transactions*

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000200269

	Date	Time	Scale
In:	8/13/2013	09:54:28	Scale 1
Out:	8/13/2013	09:57:37	P.T.

Manifest: 657763  
Vehicle ID: JC10

	Lbs	Tns
Gross:	88540	44.27
Tare:	30000	15.00
Net:	58540	29.27

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminant Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	29.27	Tns

Comments:

Driver: \_\_\_\_\_  
Sousa

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 657763

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 13307133

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Other, Clean Earth of Philadelphia, Clean Earth of North Jersey, Clean Earth of Southeast Pennsylvania

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: THROOP WALLABOUT REALTY/82 THROOP 82 THROOP AV BROOKLYN NY 11211 GROSS WEIGHT: TARE WEIGHT: NET WEIGHT:

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

non hazardous soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Signature: Title: Date and Time: 8/13/13

TRANSPORTER

Company: UC TRANSPORT Phone Number: Address: 10 CAMPBELL AV BELLEVILLE NJ Truck # and License Plate: JC#10 API24L Driver: SOUSA LAURITO SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 08-13-13

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 08-13-13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 8/13/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000288283

Date	Time	Scale
In: 8/13/2013	10:06:05	Scale 1
Out: 8/13/2013	10:29:30	P.T.

Manifest: 657764  
Vehicle ID: JC11

	Lbs	Tns
Gross:	87980	43.99
Tare:	32940	16.47
Net:	55040	27.52

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	27.52	Tns

Comments:

Driver: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 657764

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of North Jersey  
115 Jacobus Avenue  
Kearny, NJ 07032  
Ph: 973-344-4004
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

### Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>THROOP WALL ABOUT REALTY / 82 THROOP</u> <u>82 THROOP AV BROOKLYN, NY 11211</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

non hazardous (common name) soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: \_\_\_\_\_ Title: Asst  
Signature: \_\_\_\_\_ Date and Time: 8.13.13

**TRANSPORTER**

Company: JC Phone Number: \_\_\_\_\_  
Address: \_\_\_\_\_ Truck # and License Plate: 711 AP 345N  
Driver: INTERSON 2 SW Haulers Permit #: \_\_\_\_\_  
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: \_\_\_\_\_ Date and Time: 8.13.13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: 8.13.13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: \_\_\_\_\_ Date and Time: \_\_\_\_\_

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000288291

	Date	Time	Scale
In:	8/13/2013	10:34:10	Scale 1
Out:	8/13/2013	10:44:05	P.T.

Manifest: 657302  
Vehicle ID: JC9

	Lbs	Tns
Gross:	89560	44.78
Tare:	31600	15.84
Net:	57880	28.94

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	28.94	Tns

Comment:

Driver: \_\_\_\_\_  
Salgado

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 657302

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 13307433

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other \_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of North Jersey  
115 Jacobus Avenue  
Kearny, NJ 07032  
Ph: 973-344-4004
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>WALL ABOUT ROAD</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
<u>2314000 AVE ALBANY NY</u>	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

NON HAZARDOUS SOIL

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [Signature] Title: Clean Earth  
 Signature: [Signature] Date and Time: 8-13-13

**TRANSPORTER**

Company: SW Haulers Phone Number: \_\_\_\_\_  
 Address: 10000000 AVE BETHLEHEM NJ Truck # and License Plate: 49 AR1534  
 Driver: SALVILE SW Haulers Permit #: \_\_\_\_\_  
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 8/13/13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 8/13/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 8/13/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000288342

Date Time Scale  
In: 8/13/2013 13:05:14 Scale 1  
Out: 8/13/2013 13:16:11 P.T.

Manifest: 657761  
Vehicle ID: JC10

Lbs Tns  
Gross: 97780 48.89  
Tare: 30000 15.00  
Net: 67780 33.89

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin Materials & Services Quantity Unit

Kings Soil Treatment Type II 33.89 Tns

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Drivers: \_\_\_\_\_  
Sousa

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 657761

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Other, Clean Earth of Philadelphia, Clean Earth of North Jersey, Clean Earth of Southeast Pennsylvania

Non-Hazardous Material Manifest

(Type or Print Clearly)

Table with 3 columns: Generator's Name & Site Address, Gross Weight, Tare Weight, Net Weight. Includes handwritten entries for Throop Wallabout Realty.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

non-hazardous contents contained in

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law...

Name: Signature: Title: Date and Time: 8-13-13

TRANSPORTER

Company: JC TRANSPORT, Address: 10 CAMPBELL AV BELLEVILLE, Driver: SOUSA LAURITO, Phone Number, Truck # and License Plate: JC #10 AP1241L

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 08-13-13

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 08-13-13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 8/13/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8989 Fax: (732) 541-8105

Ticket: 307000288354

	Date	Time	Scale
In:	8/13/2013	13:22:40	Scale 1
Out:	8/13/2013	13:35:28	P.T.

Manifest: 783783  
Vehicle ID: JC11

	Lbs	Tns
Gross:	92860	46.43
Tare:	32940	16.47
Net:	59920	29.96

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
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Kings	Soil Treatment Type II	29.96	Tns
-------	------------------------	-------	-----

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Drivers: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 783783

GLOBAL JOB NUMBER: 137636

FACILITY APPROVAL NUMBER: 1332 1133

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Other, Clean Earth of Philadelphia, Clean Earth of North Jersey, Clean Earth of Southeast Pennsylvania

Non-Hazardous Material Manifest

(Type or Print Clearly)

Form with fields for GENERATOR'S NAME & SITE ADDRESS, GROSS WEIGHT, TARE WEIGHT, NET WEIGHT, and GENERATOR'S PHONE.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
for hazardous contents soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid...

TRANSPORTER
Company: X Phone Number:
Address: Truck # and License Plate: # 11 AP 395N
Driver: (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 8-13-13

DESTINATION
I hereby certify that the above named material was delivered without incident to the facility noted above.
Driver Signature: Date and Time: 8-13-13

I hereby certify that the above named material has been accepted at the above referenced facility.
Authorized Signature: Date and Time: 8/13/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8989 Fax: (732) 541-8105

Ticket: 307000288367

	Date	Time	Scale
In:	8/13/2013	13:46:03	Scale 1
Out:	8/13/2013	13:50:16	P.T.

Manifest: 657762  
Vehicle ID: JC9

	Lbs	Tns
Gross:	95820	47.91
Tare:	31680	15.84
Net:	64140	32.07

Customer: HSD CONSTRUCTION LLC

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Facility Approval#: 133071133  
Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	32.07	Tns
-------	---	-------	-----

Comment:

Driver: \_\_\_\_\_  
Salgado

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 657762

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Clean Earth of Carteret, Maryland, New Castle, Philadelphia, North Jersey, Southeast Pennsylvania

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: THROOP WALLABOUT REALTY... GROSS WEIGHT: Tons Yards... TARE WEIGHT: Tons Yards... NET WEIGHT: Tons Yards

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-hazardous contaminated soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law...

Name: [Signature] Title: [Signature] Signature: [Signature] Date and Time: 8/13/13

TRANSPORTER

Company: [Signature] Phone Number: [Blank] Address: [Signature] Truck # and License Plate: 29 [Signature] Driver: [Signature] SW Haulers Permit #: [Blank]

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 9/12/13

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 9/12/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 8/13/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000200399

	Date	Time	Scale
In:	8/13/2013	16:34:50	Scale 1
Out:	8/13/2013	16:44:20	P.T.

Manifest: 261430  
Vehicle ID: JC9

	Lbs	Tns
Gross:	91500	45.75
Tare:	31600	15.84
Net:	59900	29.91

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
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Kings	Soil Treatment Type II	29.91	Tns
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Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Codes: Petroleum Contaminated Soil

Comments:

Driver: \_\_\_\_\_  
Salgado

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # **261450**

GLOBAL JOB NUMBER: 130634 FACILITY APPROVAL NUMBER: 133071132

**Please Check One:**

- |  |   |  |   |
|--|---|--|---|
| <input checked="" type="checkbox"/> Clean Earth of Carteret<br>24 Middlesex Avenue<br>Carteret, NJ 07008<br>Ph: 732-541-8909 | <input type="checkbox"/> Clean Earth of Maryland<br>1469 Oak Ridge Place<br>Hagerstown, MD 21740<br>Ph: 301-791-6220        | <input type="checkbox"/> Clean Earth of New Castle<br>94 Pyles Lane<br>New Castle, DE 19720<br>Ph: 302-427-6633                  | <input type="checkbox"/> Other<br>_____<br>_____<br>_____ |
| <input type="checkbox"/> Clean Earth of Philadelphia<br>3201 S. 61st Street<br>Philadelphia, PA 19153<br>Ph: 215-724-5520    | <input type="checkbox"/> Clean Earth of West Virginia<br>3815 South State Route 2<br>Friendly, WV 26146<br>Ph: 304-652-8580 | <input type="checkbox"/> Clean Earth of Southeast Pennsylvania<br>7 Steel Road East<br>Morrisville, PA 19067<br>Ph: 215-428-1700 |   |

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>3000 1st Street</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
<u>1000 1st Street</u>	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

Non-hazardous soil contaminated

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Chen Title: EBC Field Monitor  
 Signature: [Signature] Date and Time: 8/13/2013 3:00pm

**TRANSPORTER**

Company: SW Haulers Phone Number: \_\_\_\_\_  
 Address: 1000 1st Street Truck # and License Plate: 29 4P10211  
 Driver: [Signature] SW Haulers Permit #: \_\_\_\_\_  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 8/13/13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: 8/13/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 8/13/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000268400

Date	Time	Scale
In: 8/13/2013	16:35:21	Scale 1
Out: 8/13/2013	16:44:59	P.T.

Manifest: 783784  
Vehicle ID: JC11

	Lbs	Tns
Gross:	96100	48.05
Tare:	32940	16.47
Net:	63160	31.58

Customer: HSD CONSTRUCTION LLC

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Facility Approval#: 133071133  
Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Kings	Soil Treatment Type II	31.58	Tns
-------	------------------------	-------	-----

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comment:

Driver: \_\_\_\_\_  
Anderson

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 783784

008

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other  
\_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of North Jersey  
115 Jacobus Avenue  
Kearny, NJ 07032  
Ph: 973-344-4004
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>1600P WALK BOUT ROAD / 132 THRU</u> <u>32 THRU W BROADWAY, NY 11211</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**  
Nonhazardous contaminated soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sunny Chan Title: EBC Field Monitor  
 Signature: [Signature] Date and Time: 8/13/2013 2:45pm

**TRANSPORTER**

Company: SC Phone Number: \_\_\_\_\_  
 Address: \_\_\_\_\_ Truck # and License Plate: # 11 AP 395 N  
 Driver: ANDERSON Z SW Haulers Permit #: \_\_\_\_\_  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 8.13.13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 8.13.13  
 I hereby certify that the above named material has been accepted at the above referenced facility.  
 Authorized Signature: [Signature] Date and Time: 8/13/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000289401

	Date	Time	Scale
In:	8/13/2013	16:36:56	Scale 1
Out:	8/13/2013	16:45:44	P.T.

Manifest: 657749  
Vehicle ID: JC10

	Lbs	Tns
Gross:	94560	47.28
Tare:	30000	15.00
Net:	64560	32.28

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Kings	Soil Treatment Type II	32.28	Tns
-------	------------------------	-------	-----

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Codes: Petroleum Contaminated Soil

Comment:

Driver: \_\_\_\_\_  
Sousa

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 657749

007

GLOBAL JOB NUMBER: 130636

FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Clean Earth of Carteret, Maryland, New Castle, Philadelphia, North Jersey, Southeast Pennsylvania

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: TAROOP WALLABOUT REALTY 82 THROOP AV BROOKLYN NY 11211

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION: Non-hazardous Contaminated Soil

GENERATOR'S CERTIFICATION - I hereby certify that the above named material does not contain free liquid... Name: Sunny Ojeda Title: EBC Field Monitor Date and Time: 8/13/2013 2:20pm

TRANSPORTER: Company: JC TRANSPORT Phone Number: Address: 10 CAMPBELL AV. BELLVILLE Truck # and License Plate: JC #10 AB124L Driver: SOUSA LAURITO SW Haulers Permit #: (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: 08-13-13

DESTINATION: I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time: 08-13-13 I hereby certify that the above named material has been accepted at the above referenced facility. Authorized Signature: Date and Time: 8/13/13

Clean Earth of Carteret  
**Profile Report**  
 Transactions from 09/09/2013 through 09/09/2013  
 Inbound Tickets Only  
 Third Party and Intercompany Customers  
 Recycle and Disposal Material  
 Sent and Unsent Tickets  
 Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Bill. Units	Cubic Yards	Tons	Estimated Tons
<b>133071133 - Throop Wallabout Realty/82 Throop</b>									
						Global Job Number: 130636			
307000292179	09/09/13	SHIRLEY12	I	804143	HSD812-HSD CONSTRUCTION LLC	31.900 Tn	0.00	31.90	0.00
307000292221	09/09/13	RLS28	I	804139	HSD812-HSD CONSTRUCTION LLC	32.860 Tn	0.00	32.86	0.00
307000292244	09/09/13	SHIRLEY6	I	804137	HSD812-HSD CONSTRUCTION LLC	30.440 Tn	0.00	30.44	0.00
307000292272	09/09/13	SHIRLEY8	I	804144	HSD812-HSD CONSTRUCTION LLC	31.020 Tn	0.00	31.02	0.00
307000292276	09/09/13	SHIRLEY22	I	804142	HSD812-HSD CONSTRUCTION LLC	31.700 Tn	0.00	31.70	0.00
307000292311	09/09/13	SHIRLEY12	I	804380	HSD812-HSD CONSTRUCTION LLC	34.190 Tn	0.00	34.19	0.00
<b>133071133 - Throop Wallabout Realty/82 Throop</b>							0.00	192.11	0.00
<i>6 tickets and 6 transactions</i>									

**Report Grand Totals**  
*6 tickets and 6 transactions*

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000292179

	Date	Time	Scale
In:	9/9/2013	09:18:00	Scale 1
Out:	9/9/2013	09:18:10	P.T.

Manifest: 804143  
Vehicle ID: SHIRLEY12

	Lbs	Tns
Gross:	89700	44.85
Tare:	25900	12.95
Net:	63800	31.90

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Kings	Soil Treatment Type II	31.90	Tns
-------	------------------------	-------	-----

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Driver: \_\_\_\_\_  
Marco

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 804143

GLOBAL JOB NUMBER: 130636

FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Other, Clean Earth of Philadelphia, Clean Earth of North Jersey, Clean Earth of Southeast Pennsylvania

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Throop Wallabout Realty/82 Troop, 82 Throop Avenue Brooklyn, NY 11211. GROSS WEIGHT, TARE WEIGHT, NET WEIGHT sections.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sara Babynatsky (as agent of generator), Title: Consultant, Signature: [Signature], Date and Time: 9/9/13 7:15 AM

TRANSPORTER

Company: Shirley Express LLC, Phone Number: (862) 279-0899, Address: 702 Ramsey Ave, Hillside, NJ 07205, Truck # and License Plate: A11396 L # 12, Driver: Marco Velazquez, SW Haulers Permit #: NJ-864

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature], Date and Time: 9/9/13

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature], Date and Time: 9/9/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature], Date and Time: 9/9/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000292221

	Date	Time	Scale
In:	9/9/2013	10:27:39	Scale 1
Out:	9/9/2013	10:30:05	P.T.

Manifest: 804139  
Vehicle ID: RLS20

	Lbs	Tns
Gross:	91640	45.82
Tares:	25920	12.96
Net:	65720	32.86

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Kings	Soil Treatment Type II	32.86	Tns
-------	------------------------	-------	-----

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Driver: \_\_\_\_\_  
004139

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 804139

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of North Jersey  
115 Jacobus Avenue  
Kearny, NJ 07032  
Ph: 973-344-4004
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>Throop Wallabout Realty/82Throop</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
<u>82 Throop Avenue Brooklyn, NY 11211</u>	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

Non-Hazardous Soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sara Babynatseglas agent of generator Title: Consultant  
Signature: [Signature] Date and Time: 9/9/13 7:30am

**TRANSPORTER**

Company: Shirley Express LLC Phone Number: (862) 279-0899  
Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: H28 / NJ AP 207R  
Driver: \_\_\_\_\_ SW Haulers Permit #: NJ-864  
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: \_\_\_\_\_ Date and Time: 9 9 13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: 9 9 13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: \_\_\_\_\_ Date and Time: 9/9/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000292244

Date	Time	Scale
In: 9/9/2013	11:00:42	Manual W
Out: 9/9/2013	11:13:40	P.T.

Manifest: 804137  
Vehicle ID: SHIRLEY6

	Lbs	Tns
Gross:	86820	43.41
Tare:	25940	12.97
Net:	60880	30.44

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
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Kings	Soil Treatment Type II	30.44	Tns
-------	------------------------	-------	-----

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Drivers: \_\_\_\_\_  
Carlos

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 804137

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other  
\_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of North Jersey  
115 Jacobus Avenue  
Kearny, NJ 07032  
Ph: 973-344-4004
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>Throop Wallabout Realty/82Throop</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
<u>82 Throop Avenue Brooklyn NY 11211</u>	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

Non-Hazardous Soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sara Babitsky (as agent of generator) Title: consultant  
 Signature: [Signature] Date and Time: 9/9/13 7:50AM

**TRANSPORTER**

Company: Shirley Express LLC Phone Number: (862) 279-0899  
 Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: #06 - AM110T  
 Driver: Carlos SW Haulers Permit #: NJ-R64 Shirley  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 9-9-13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 9-9-13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 9/9/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000292272

Date	Time	Scale
In: 9/9/2013	12:26:28	Scale 1
Out: 9/9/2013	12:41:14	P.T.

Manifest: 804144  
Vehicle ID: SHIRLEY8

	Lbs	Tns
Gross:	88900	44.49
Tare:	26940	13.47
Net:	62040	31.02

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
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Kings	Soil Treatment Type II	31.02	Tns
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Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Driver: \_\_\_\_\_  
Luis

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 804144

GLOBAL JOB NUMBER: 130636

FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Clean Earth of Carteret, Maryland, New Castle, Philadelphia, North Jersey, Southeast Pennsylvania, and Other options with addresses and phone numbers.

Non-Hazardous Material Manifest

(Type or Print Clearly)

Table with 3 columns: Generator's Name & Site Address, Gross Weight, and Tare/Net Weight. Includes handwritten address: Throop Wallabout Realty/82 Troop, 82 Throop Avenue Brooklyn, NY 11211.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sara Fabalsky (as a gen. B generator) Title: Consultant
Signature: [Handwritten Signature] Date and Time: 9/9/13 8:30AM

TRANSPORTER

Company: Shirley Express LLC Phone Number: (862) 279-0899
Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: D08-AP605E
Driver: Luis Diaz SW Haulers Permit #: NJ-864

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Handwritten Signature] Date and Time: 9/9/13

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Handwritten Signature] Date and Time: 9/9/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Handwritten Signature] Date and Time: 9/9/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000258276

	Date	Time	Scale
In:	9/9/2013	12:45:22	Scale 1
Out:	9/9/2013	12:51:00	P.T.

Manifest: 804142  
Vehicle ID: SHIRLEY22

	Lbs	Tns
Gross:	88600	44.30
Tare:	25200	12.60
Net:	63400	31.70

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
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Kings	Soil Treatment Type II	31.70	Tns
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Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Driver: \_\_\_\_\_  
Yovani

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 804142

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Clean Earth of Carteret, Maryland, New Castle, Philadelphia, North Jersey, Southeast Pennsylvania, Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Throop Wallabout Realty/82 Troop
GROSS WEIGHT: Tons Yards
TARE WEIGHT: Tons Yards
NET WEIGHT: Tons Yards

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Ira Bronitsky/Asagent of general Title: Consultant
Signature: [Signature] Date and Time: 9/9/13 8:15 AM

TRANSPORTER

Company: Shirley Express LLC Phone Number: (862) 279-0899
Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: T832923 #72
Driver: YOUNANI MURIN SW Haulers Permit #: NJ-864

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 9-9-13

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 9-9-13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 9/9/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000292311

	Date	Time	Scale
In:	9/9/2013	13:53:19	Scale 1
Out:	9/9/2013	14:03:07	P.T.

Manifest: 804300  
Vehicle ID: SHIRLEY12

	Lbs	Tns
Gross:	94200	47.14
Tare:	25900	12.95
Net:	68300	34.19

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
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Kings	Soil Treatment Type II	34.19	Tns
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Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Driver: \_\_\_\_\_  
Marco

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 804380

GLOBAL JOB NUMBER: 130686 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other  
\_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of North Jersey  
115 Jacobus Avenue  
Kearny, NJ 07032  
Ph: 973-344-4004
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>Throop Wallabout Realty/82 Throop</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
<u>82 Throop Avenue Brooklyn, NY 11211</u>	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

Non-Hazardous Soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sara Poterzky (as agent of generator) Title: Consultant  
 Signature: \_\_\_\_\_ Date and Time: 9/9/13

**TRANSPORTER**

Company: Shirley Express LLC Phone Number: (862) 279-0899  
 Address: 792 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: #12 AN3962  
 Driver: Marco Volante SW Haulers Permit #: NJ864  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: \_\_\_\_\_ Date and Time: 9/4/13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: 9/9/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: \_\_\_\_\_ Date and Time: 9/9/13

Clean Earth of Carteret  
**Profile Report**

Transactions from 09/10/2013 through 09/10/2013  
 Inbound Tickets Only  
 Third Party and Intercompany Customers  
 Recycle and Disposal Material  
 Sent and Unsent Tickets  
 Full Details

sRpPrf.rpt  
 Profile: 133071133  
 Site ID: 307

Ticket	Date	Truck	In / Out	Manifest	Customer	Bill. Units	Cubic Yards	Tons	Estimated Tons
<b>133071133 - Throop Wallabout Realty/82 Throop</b>									
307000292394	09/10/13	SHIRLEY22	I	804129	HSD812-HSD CONSTRUCTION LLC	35.220 Tn	0.00	35.22	0.00
307000292395	09/10/13	SHIRLEY14	I	804133	HSD812-HSD CONSTRUCTION LLC	34.410 Tn	0.00	34.41	0.00
307000292398	09/10/13	SHIRLEY6	I	804136	HSD812-HSD CONSTRUCTION LLC	35.430 Tn	0.00	35.43	0.00
307000292399	09/10/13	SHIRLEY8	I	804381	HSD812-HSD CONSTRUCTION LLC	34.870 Tn	0.00	34.87	0.00
307000292402	09/10/13	RLS28	I	804128	HSD812-HSD CONSTRUCTION LLC	38.210 Tn	0.00	38.21	0.00
<b>133071133 - Throop Wallabout Realty/82 Throop</b>							0.00	178.14	0.00
<i>5 tickets and 5 transactions</i>									

**Report Grand Totals**

*5 tickets and 5 transactions*

0.00	178.14	0.00
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Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000292394  
Date Time Scale  
Ins: 9/10/2013 07:29:29 Scale 1  
Out: 9/10/2013 07:29:45 P.T.

Manifest: 804129  
Vehicle ID: SHIRLEY22

Lbs Tns  
Gross: 95640 47.82  
Tare: 25200 12.60  
Net: 70440 35.22

Customer: HSD CONSTRUCTION LLC

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Facility Approval#: 133071133  
Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin Materials & Services Quantity Unit

Kings Soil Treatment Type II 35.22 Tns

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comment:

Driver: \_\_\_\_\_  
Yovani

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 804129

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other  
\_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of North Jersey  
115 Jacobus Avenue  
Kearny, NJ 07032  
Ph: 973-344-4004
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>Throop Wallabout Realty/82Throop</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
<u>82 Throop Avenue Brooklyn, NY 11211</u>	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

Non-Hazardous Soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Jacob Babunsky (As Agent of generator) Title: Consultant  
 Signature: [Signature] Date and Time: 9/9/13

**TRANSPORTER**

Company: Shirley Express LLC Phone Number: (862) 279-0899  
 Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: # C2 - HP 11111  
 Driver: YOUNG MARI SW Haulers Permit #: NI-864  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 9-9-13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 9/10/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 9/10/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8989 Fax: (732) 541-8105

Ticket: 307000292395

	Date	Time	Scale
In:	9/10/2013	07:30:23	Scale 1
Out:	9/10/2013	07:30:36	P.T.

Manifest: 804133  
Vehicle ID: SHIRLEY14

	Lbs	Tns
Gross:	95020	47.51
Tare:	26200	13.10
Net:	68820	34.41

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Kings	Soil Treatment Type II	34.41	Tns
-------	------------------------	-------	-----

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Drivers: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 804133

GLOBAL JOB NUMBER: 130636

FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Checkboxes for various Clean Earth locations: Carteret, Maryland, New Castle, Philadelphia, North Jersey, Southeast Pennsylvania, and Other.

Non-Hazardous Material Manifest

(Type or Print Clearly)

Form with fields for GENERATOR'S NAME & SITE ADDRESS, GROSS WEIGHT, TARE WEIGHT, and NET WEIGHT.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sara Babynsky (as agent of generator) Title: Consultant
Signature: [Signature] Date and Time: 9/9/13 5:00 pm

TRANSPORTER

Company: Shirley Express LLC Phone Number: (862) 279-0899
Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: 14 F832913
Driver: [Name] SW Haulers Permit #: NJ-864 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 9-9-13 5:00 pm

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: [Blank]

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 9/9-13 5:00 pm

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000292399

	Date	Time	Scale
In:	9/10/2013	07:36:03	Manual W
Out:	9/10/2013	07:30:02	P.T.

Manifest: 804381  
Vehicle ID: SHIRLEY8

	Lbs	Tns
Gross:	96680	48.34
Tare:	26940	13.47
Net:	69740	34.87

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty I,  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Kings	Soil Treatment Type II	34.87	Tns
-------	------------------------	-------	-----

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Driver: \_\_\_\_\_  
Luis

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 804381

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Other, Clean Earth of Philadelphia, Clean Earth of North Jersey, Clean Earth of Southeast Pennsylvania

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Throop Wailabout Realty/82 Throop, 82 Throop Avenue Brooklyn, NY 11211. GROSS WEIGHT: Tons/Yards. TARE WEIGHT: Tons/Yards. NET WEIGHT: Tons/Yards.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sara Babchatsky (as agent of generator) Title: Consultant. Signature: [Signature] Date and Time: 9/9/13 4:40pm

TRANSPORTER

Company: Shirley Express LLC Phone Number: (862) 279-0899. Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: #08-AP645F. Driver: [Signature] (Type or Print Clearly) SW Haulers Permit #: NJ864 (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 9/9/13 4:40 PM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 9/10/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 9/10/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8989 Fax: (732) 541-8105

Ticket: 307000292398

Date	Time	Scale
In: 9/10/2013	07:36:29	Scale 1
Out: 9/10/2013	07:37:05	P.T.

Manifest: 804136  
Vehicle ID: SHIRLEY6

	Lbs	Tns
Gross:	96800	48.40
Tare:	25940	12.97
Net:	70860	35.43

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Kings	Soil Treatment Type II	35.43	Tns
-------	------------------------	-------	-----

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Drivers: \_\_\_\_\_  
Carlos

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 804136

GLOBAL JOB NUMBER: 130636

FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Other, Clean Earth of Philadelphia, Clean Earth of North Jersey, Clean Earth of Southeast Pennsylvania

Non-Hazardous Material Manifest

(Type or Print Clearly)

Table with 2 columns: Generator's Name & Site Address, Gross Weight, Tare Weight, Net Weight. Includes handwritten address: Throop Wallabout Realty/82 Throop, 82 Throop Avenue Brooklyn, NY 11211.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Sara Babynsky (as agent of generator) Title: Consultant
Signature: [Handwritten Signature] Date and Time: 9/9/13 1220 (arrived)

TRANSPORTER

Company: Shirley Express LLC Phone Number: (862) 279-0899
Address: 702 Ramsey Ave, Hillside, NJ 07205 Truck # and License Plate: #06 - Am1107
Driver: Corio3 SW Haulers Permit #: NJ-864 Shirley (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Handwritten Signature] Date and Time: 9-9-13 - 4:00

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Handwritten Signature] Date and Time: 9-9-13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Handwritten Signature] Date and Time: 9/9/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8989 Fax: (732) 541-8105

Ticket: 307000292402

	Date	Time	Scale
In:	9/10/2013	07:36:52	Scale 1
Out:	9/10/2013	07:42:48	P.T.

Manifest: 804128  
Vehicle ID: RLS28

	Lbs	Tns
Gross:	102340	51.17
Tare:	25920	12.96
Net:	76420	38.21

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	38.21	Tns

Comments:

Driver: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 804128

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Other, Clean Earth of Philadelphia, Clean Earth of North Jersey, Clean Earth of Southeast Pennsylvania

Non-Hazardous Material Manifest

(Type or Print Clearly)

Table with 3 columns: Generator's Name & Site Address, Gross Weight, Tare Weight, Net Weight. Includes handwritten address: 82 Throop Avenue Brooklyn, NY 11211.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law...

Name: Sara Babunsky (manager of generator) Title: Consultant
Signature: [Handwritten] Date and Time: 9/9/13 12:10pm

TRANSPORTER

Company: Shirley Express LLC Phone Number: (862) 279-0899
Address: 702 Bankey Ave, Hillside, NJ 07205
Driver: [Handwritten] SW Haulers Permit #: NJ-264

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Handwritten] Date and Time: 9-9-13

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Handwritten] Date and Time: 9-9-13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Handwritten] Date and Time: 9/9/13

Profile: 133071133  
Site ID: 307

**Profile Report**

Transactions from 10/16/2013 through 10/16/2013

Inbound Tickets Only

Third Party and Intercompany Customers

Recycle and Disposal Material

Sent and Unsent Tickets

Full Details

Ticket	Date	Truck	In / Out	Manifest	Customer	Bill. Units	Cubic Yards	Tons	Estimated Tons	
<b>133071133 - Throop Wallabout Realty/82 Throop</b>										
						Global Job Number: 130636				
307000299770	10/16/13	SHIRLEY9	I	250901	HSD812-HSD CONSTRUCTION LLC	30.650 Tn	0.00	30.65	0.00	
307000299804	10/16/13	SHIRLEY10	I	250900	HSD812-HSD CONSTRUCTION LLC	34.990 Tn	0.00	34.99	0.00	
307000299805	10/16/13	SHIRLEY12	I	250898	HSD812-HSD CONSTRUCTION LLC	32.520 Tn	0.00	32.52	0.00	
307000299881	10/16/13	SHIRLEY9	I	883655	HSD812-HSD CONSTRUCTION LLC	30.870 Tn	0.00	30.87	0.00	
307000299903	10/16/13	SHIRLEY10	I	250899	HSD812-HSD CONSTRUCTION LLC	34.520 Tn	0.00	34.52	0.00	
307000299904	10/16/13	SHIRLEY12	I	250897	HSD812-HSD CONSTRUCTION LLC	31.410 Tn	0.00	31.41	0.00	
<b>133071133 - Throop Wallabout Realty/82 Throop</b>							0.00	194.96	0.00	
<i>6 tickets and 6 transactions</i>										
<b>Report Grand Totals</b>							0.00	194.96	0.00	
<i>6 tickets and 6 transactions</i>										

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000299770

Date	Time	Scale
In: 10/16/2013	09:45:38	Scale 1
Out: 10/16/2013	09:54:33	P.T.

Manifest: 250901  
Vehicle ID: SHIRLEY9

	Lbs	Tns
Gross:	88800	44.44
Tare:	27500	13.79
Net:	61300	30.65

Customer: HSD CONSTRUCTION LLC

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Facility Approval#: 133071133  
Job Name: Throop Wallabout Realty/02 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II	30.65	Tns
Contaminate Type: NON SPECIFIC SOURCE			
Treatment Type: Bio			
Fac Waste Code: Petroleum Contaminated Soil			
Comments:			

Driver: \_\_\_\_\_  
Penafiel

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # **250901**

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
 24 Middlesex Avenue  
 Carteret, NJ 07008  
 Ph: 732-541-8909
- Clean Earth of Maryland  
 1469 Oak Ridge Place  
 Hagerstown, MD 21740  
 Ph: 301-791-6220
- Clean Earth of New Castle  
 94 Pyles Lane  
 New Castle, DE 19720  
 Ph: 302-427-6633
- Other \_\_\_\_\_
- Clean Earth of Philadelphia  
 3201 S. 61st Street  
 Philadelphia, PA 19153  
 Ph: 215-724-5520
- Clean Earth of West Virginia  
 3815 South State Route 2  
 Friendly, WV 26146  
 Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
 7 Steel Road East  
 Morrisville, PA 19067  
 Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>82 Throop Ave Brooklyn NY 11211</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
<u>Throop Ave Wallabout Realty/82</u>	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

non hazardous construction soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Ken Water Title: Consult  
 Signature: \_\_\_\_\_ Date and Time: 10-16-13

**TRANSPORTER**

Company: Shirley Express LLC Phone Number: (862) 279-0899  
 Address: 11111bide NJ Truck # and License Plate: 09 AM395Z  
 Driver: Penafiel SW Haulers Permit #: \_\_\_\_\_  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: PA Date and Time: 10/16/13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: PA Date and Time: 10/16/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: \_\_\_\_\_ Date and Time: 10/16/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000299004

Date Time Scale  
In: 10/16/2013 10:45:16 Scale 1  
Out: 10/16/2013 10:59:01 P.T.

Manifest: 250000  
Vehicle ID: SHIRLEY10

Lbs Tns  
Gross: 97500 48.79  
Tare: 27600 13.80  
Net: 69900 34.99

Customer: HSD CONSTRUCTION LLC

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Facility Approval#: 133071133  
Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	34.99	Tns.

Comment:

Driver: \_\_\_\_\_  
Carlos

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # **250900**

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of West Virginia  
3815 South State Route 2  
Friendly, WV 26146  
Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>82 Throop Ave Brooklyn NY</u> <u>Realty/82</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

non-hazardous contaminated soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Carla Waters Title: consult  
 Signature: \_\_\_\_\_ Date and Time: 10-16-13

**TRANSPORTER**

Company: Shirley Express LLC Phone Number: \_\_\_\_\_  
 Address: 702 Ramsey Ave Hillside NJ Truck # and License Plate: 10 AP 600 J  
 Driver: Carlos Ruiz SW Haulers Permit #: NJ-86A  
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: \_\_\_\_\_ Date and Time: 10/16/13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: 10/16/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: \_\_\_\_\_ Date and Time: 10/16/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8989 Fax: (732) 541-8105

Ticket: 307000299005

Date Time Scale  
In: 10/16/2013 10:53:19 Scale 1  
Out: 10/16/2013 10:59:44 P.T.

Manifest: 250898  
Vehicle ID: SHIRLEY12

Lbs Tns  
Gross: 90940 45.47  
Tare: 25900 12.95  
Net: 65040 32.52

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133871133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	32.52	Tns
Comments:			

Driver: \_\_\_\_\_  
marco

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # **250898**

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Other  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of West Virginia  
3815 South State Route 2  
Friendly, WV 26146  
Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>B2 Thruop Ave Brooklyn NY</u> <u>Realty/B2</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards	

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

Non-hazardous carbonaceous soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: \_\_\_\_\_ Title: consultant  
 Signature: \_\_\_\_\_ Date and Time: 10-16-13 8:30

**TRANSPORTER**

Company: Shirley Exp LLC Phone Number: \_\_\_\_\_  
 Address: Hwy 145 Truck # and License Plate: AH 3962 #12  
 Driver: Warrio Up to help SW Haulers Permit #: NJ 870  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: \_\_\_\_\_ Date and Time: 10/16/13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: 10/16/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: \_\_\_\_\_ Date and Time: 10/16/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8989 Fax: (732) 541-8105

Ticket#: 307000299881

Date Time Scale  
In: 10/16/2013 13:04:19 Scale 1  
Out: 10/16/2013 13:06:29 P.T.

Manifest: 883655  
Vehicle ID: SHIRLEY9

Lbs Tns  
Gross: 89320 44.66  
Tare: 27500 13.79  
Net: 61740 30.87

Customer: HSD CONSTRUCTION LLC

Facility Approval#: 133071133

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin Materials & Services Quantity Unit

Kings Soil Treatment Type II 30.87 Tns

Contaminate Type: NON SPECIFIC SOURCE  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil

Comments:

Drivers: \_\_\_\_\_  
penafiel

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 883655

GLOBAL JOB NUMBER: 130636

FACILITY APPROVAL NUMBER: 133071133

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Clean Earth of Greater Washington, Clean Earth of Philadelphia, Clean Earth of North Jersey, Clean Earth of Southeast Pennsylvania, Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: 82 Troop Ave Brooklyn NY 11211
GROSS WEIGHT: Tons Yards
TARE WEIGHT: Tons Yards
GENERATOR'S PHONE:
NET WEIGHT: Tons Yards

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
non-hazardous contaminated soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.
I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.
Name: Kevin Waters Title:
Signature: Date and Time: 10-16-13

TRANSPORTER
Company: Shirley Express LLC Phone Number: (862) 279-0899
Address: Hillside NJ Truck # and License Plate: 09 AM79SE
Driver: Dewit SW Haulers Permit #:
(Type or Print Clearly) (applicable state permit #)
I hereby certify that the above named material was picked up at the site listed above.
Driver Signature: PA Date and Time: 10/16/13

DESTINATION
I hereby certify that the above named material was delivered without incident to the facility noted above.
Driver Signature: PA Date and Time: 10/16/13
I hereby certify that the above named material has been accepted at the above referenced facility.
Authorized Signature: Date and Time: 10/16/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket#: 307000299903  
Date: 10/16/2013 Time: 14:10:49 Scale: 1  
In: 10/16/2013 14:10:49 Scale: 1  
Out: 10/16/2013 14:12:19 P.T.

Manifest: 250899  
Vehicle ID: SHIRLEY10

	Lbs	Tns
Gross:	96640	48.32
Tare:	27600	13.80
Net:	69040	34.52

Customer: HSD CONSTRUCTION LLC

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Facility Approval#: 133071133  
Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	34.52	Tns

Comment:

Driver: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # **250899**

GLOBAL JOB NUMBER: 130636 FACILITY APPROVAL NUMBER: 133071133

**Please Check One:**

- Clean Earth of Carteret  
 24 Middlesex Avenue  
 Carteret, NJ 07008  
 Ph: 732-541-8909
- Clean Earth of Maryland  
 1469 Oak Ridge Place  
 Hagerstown, MD 21740  
 Ph: 301-791-6220
- Clean Earth of New Castle  
 94 Pyles Lane  
 New Castle, DE 19720  
 Ph: 302-427-6633
- Other \_\_\_\_\_
- Clean Earth of Philadelphia  
 3201 S. 61st Street  
 Philadelphia, PA 19153  
 Ph: 215-724-5520
- Clean Earth of West Virginia  
 3815 South State Route 2  
 Friendly, WV 26146  
 Ph: 304-652-8580
- Clean Earth of Southeast Pennsylvania  
 7 Steel Road East  
 Morrisville, PA 19067  
 Ph: 215-428-1700

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>82 Throop Ave Brooklyn NY</u> <u>Ralty / 82</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: _____	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

non hazardous DOTs contaminated soil

**GENERATOR'S CERTIFICATION** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [Signature] Title: owner  
 Signature: [Signature] Date and Time: 10/16/13

**TRANSPORTER**

Company: Shirley Express LLC Phone Number: \_\_\_\_\_  
 Address: 702 Ramsey Ave Hillside, NJ Truck # and License Plate: 10 AP 600J  
 Driver: Carlos Ruiz SW Haulers Permit #: NJ-969  
 (Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Signature] Date and Time: 10/16/13

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Signature] Date and Time: 10/16/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: 10/16/13

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 307000299904  
Date: 10/16/2013 Time: 14:12:57 Scale: 1  
In: 10/16/2013 14:12:57 Scale: 1  
Out: 10/16/2013 14:13:05 P.T.

Manifest: 250897  
Vehicle ID: SHIRLEY12

	Lbs	Tns
Gross:	88720	44.36
Tare:	25900	12.95
Net:	62820	31.41

Customer: HSD CONSTRUCTION LLC

Generator: Throop Wallabout Realty L  
Gen Address: 82 Throop Avenue  
Brooklyn, NY 11211

Facility Approval#: 133071133  
Job Name: Throop Wallabout Realty/82 Th  
Job Address: 82 Throop Avenue  
Brooklyn, NY 11211

Origin	Materials & Services	Quantity	Unit
Kings	Soil Treatment Type II Contaminate Type: NON SPECIFIC SOURCE Treatment Type: Bio Fac Waste Code: Petroleum Contaminated Soil	31.41	Tns

Comment:

Driver: \_\_\_\_\_

Facility: \_\_\_\_\_  
Lukasz Ceglarek



Manifest # 250897

GLOBAL JOB NUMBER: 130 636 FACILITY APPROVAL NUMBER: 133 071133

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Other, Clean Earth of Philadelphia, Clean Earth of West Virginia, Clean Earth of Southeast Pennsylvania

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: B2 Throop Ave Brooklyn NY
GROSS WEIGHT: Tons/Yards
TARE WEIGHT: Tons/Yards
GENERATOR'S PHONE:
NET WEIGHT: Tons/Yards

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION
non hazardous (unbranded) soil

GENERATOR'S CERTIFICATION - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Title:
Signature: Date and Time: 10/16/13

TRANSPORTER

Company: Shirley Exp LLC Phone Number:
Address: Hillside NJ Truck # and License Plate:
Driver: Mario Velazquez SW Haulers Permit #:
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 10/16/13

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 10/16/13

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 10/16/13

**APPENDIX K**  
***Tank Removal Documentation***

**Palladino Heating Services, Inc.**  
2395 Washington Avenue  
Bronx, New York 10458  
Ph: 718-882-1044 Fax: 718-882-1591  
Email: fuel4less@aol.com  
Licensed and Bonded

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August 22, 2013

**Premises: 82 Throop Avenue**  
Brooklyn, New York 11206

**Bin: 3834224 Block: 2266 Lot: 34**

**Re: (1) 1500 Gallon Buried Fuel Oil Tanks**

**This document is to certify that (1) 1500 gallon buried fuel oil tank (#2 fuel oil) has been permanently removed from the above mentioned address as per R3404-01 Rules of the City of New York.**

**The storage system was removed in accordance with the guidelines described in FC3404.2, 13 & FC3404.2, 14.**

**All contents of said storage system have been removed and the system rendered free of flammable or combustible vapors.**

**All waste removed from the storage system has been disposed of in accordance with applicable city, state and federal requirements.**

**The tank has been properly cleaned; and all lines have been removed.**

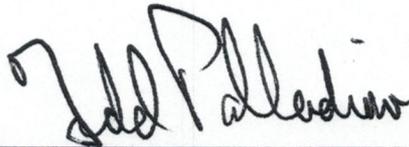
**All work cited has been implemented and completed by;**

**All Boro Tank Testing**  
965 74<sup>th</sup> Street  
Brooklyn, New York 11228

**Christopher Quintana Ph: 718-285-8680**

Thank you,

Todd Palladino x



**Licensed and Bonded Oil Burner Equipment Installer**

**New York City License # 5277 Expiration: 05/31/2016**

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# NON-HAZARDOUS WASTE MANIFEST

Print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Document No. <b>376</b>	2. Page 1 of
3. Generator's Name and Mailing Address <i>Theresa J. Gerry (contractor) wife Brooklyn, NY</i>				
4. Generator's Phone ( )				
5. Transporter 1 Company Name <i>All Core Tank</i>		6. US EPA ID Number		A. State Transporter's ID <i>2A-696</i>
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone <i>718-255-488</i>
9. Designated Facility Name and Site Address <i>Clean Water of NY 3246 Richmond Terr. Statens Island, NY</i>		10. US EPA ID Number		C. State Transporter's ID
D. Transporter 2 Phone				
E. State Facility's ID				
F. Facility's Phone				

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. <i>oil/water mix</i>	<i>01</i>	<i>IT</i>	<i>940</i>	<i>G</i>
b.				
c.				
d.				
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information				

**16. GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

*Damon Binmatat* (Printed/Typed Name)      *Damon Binmatat* (Signature)      *AS Agent* (Title)

Date: *08/06/13*

**17. Transporter 1 Acknowledgement of Receipt of Materials**

*Damon Binmatat* (Printed/Typed Name)      *Damon Binmatat* (Signature)      Date: *08/07/13*

**18. Transporter 2 Acknowledgement of Receipt of Materials**

(Printed/Typed Name)      (Signature)      Date: \_\_\_\_\_

**19. Discrepancy Indication Space**

\_\_\_\_\_

**20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.**

*William Johnson* (Printed/Typed Name)      *William Johnson* (Signature)      Date: *8/7/13*

NON-HAZARDOUS WASTE

TRANSPORTER

FACILITY



**APPENDIX L**

***Manifests – Petroleum Impacted Groundwater***



**All Boro Tank , LLC**

659 Berriman Street  
 Brooklyn NY 11208  
 Office 718.285.8680  
 Fax 718.285.8110

**Invoice**

Date	Invoice #
9/11/2013	413

<b>Bill To</b>
HSD Construction 505 Flushing Avenue Brooklyn, NY 11205 Bob Moro

P.O. No.	Terms	Project
	Due on receipt	

Quantity	Description	Rate	Amount
	Job-Site Location: Construction site Throop and Gerry		
	Pump Truck #1- 9/11/2013	600.00	600.00T
	Supply pump truck operator and helper to pump out the pit.		
1,950	Disposal of contaminated Oil/Water from the above location.	0.95	1,852.50T
	Pump Truck: #2-9/11/13	600.00	600.00T
	Supply Pump truck operator and helper to pump out the pit.		
3,950	Disposal of contaminated Oil/Water from the above location.	0.95	3,752.50T
	Pump Truck: #3-9/12/13	600.00	600.00T
	Supply Pump truck operator and helper to pump out the pit.		
950	Disposal of contaminated Oil/Water from the above location.	0.95	902.50T
	Sales Tax	8.875%	737.29

Thanks for the opportunity to service you.	<b>Total</b>	\$9,044.79
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APPROVAL # 1024-001

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Document No.	2. Page 1 of		
3. Generator's Name and Mailing Address <b>THROOP &amp; GERRY BROOKLYN, NY</b>							
4. Generator's Phone ( )							
5. Transporter 1 Company Name <b>ALL BORO TANK</b>		6. US EPA ID Number		A. State Transporter's ID <b>2A 696</b>			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone <b>781-285-8680</b>			
9. Designated Facility Name and Site Address <b>CLEAN WATER OF NY 3249 RICHMOND TERR. STATEN ISLAND, NY</b>		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone <b>781-981-4600</b>			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	14. Unit WL/Vol.
				No.	Type		
a. <b>OIL &amp; WATER</b>				<b>01</b>	<b>TT</b>	<b>3950</b>	<b>G</b>
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name <b>E. Casenave Jr</b>				Signature <i>E. Casenave Jr</i>		Date <b>09/11/13</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name <b>DAMON ALFAU</b>		Signature <i>Damon Alfau</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				Printed/Typed Name <b>Carlos Herrera</b>		Signature <i>Carlos Herrera</i>	
						Date <b>9/13/13</b>	

NON-HAZARDOUS WASTE GENERATOR

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address <i>Throop AV Brooklyn NY</i>				
4. Generator's Phone ( )				
5. Transporter 1 Company Name <i>All Boro Tank</i>		6. US EPA ID Number	A. State Transporter's ID <i>2A-696</i>	
7. Transporter 2 Company Name <i>Keppid Waste Disposal</i>		8. US EPA ID Number	B. Transporter 1 Phone <i>718 285 9050</i>	
9. Designated Facility Name and Site Address		10. US EPA ID Number	C. State Transporter's ID <i>1A-605</i>	
			D. Transporter 2 Phone <i>516 796 3093</i>	
E. State Facility's ID				
F. Facility's Phone				

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. <i>oil water mix</i>	<i>01</i>	<i>TT</i>	<i>1950</i>	<i>G</i>
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above
15. Special Handling Instructions and Additional Information	

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name <i>Shirley Curran</i>	Signature <i>[Signature]</i>	Date	Month	Day	Year

17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <i>Damon Permatat</i>	Signature <i>[Signature]</i>	Date	Month	Day	Year
			<i>09</i>	<i>11</i>	<i>13</i>

18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name <i>Damon Permatat</i>	Signature <i>[Signature]</i>	Date	Month	Day	Year
			<i>09</i>	<i>12</i>	<i>13</i>

19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					

Printed/Typed Name <i>William Jensen</i>	Signature <i>[Signature]</i>	Date	Month	Day	Year
			<i>9</i>	<i>12</i>	<i>13</i>

NON-HAZARDOUS WASTE

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address <p style="text-align: center; font-size: 1.2em;">Throop Av Brooklyn, NY</p>							
4. Generator's Phone (							
5. Transporter 1 Company Name <p style="font-size: 1.2em;">All Boro Tank</p>		6. US EPA ID Number		A. State Transporter's ID <p style="font-size: 1.2em;">2A-696</p>		B. Transporter 1 Phone <p style="font-size: 1.2em;">718 285 8680</p>	
7. Transporter 2 Company Name <p style="font-size: 1.2em;">Rapid Waste Disposal</p>		8. US EPA ID Number		C. State Transporter's ID <p style="font-size: 1.2em;">1A-615</p>		D. Transporter 2 Phone <p style="font-size: 1.2em;">516 796 3093</p>	
9. Designated Facility Name and Site Address <p style="font-size: 1.2em;">Clean Water of New York Inc 5249 Richmond Terrace Staten Island NY</p>		10. US EPA ID Number <p style="font-size: 1.2em;">10303</p>		E. State Facility's ID <p style="font-size: 1.2em;">NY0000968545</p>		F. Facility's Phone <p style="font-size: 1.2em;">718 981 4600</p>	
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	14. Unit Wt./Vol.
				No.	Type		
a. Oil water mix				01	TT	950	G
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
<p><b>16. GENERATOR'S CERTIFICATION:</b> I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.</p>							
Printed/Typed Name <p style="font-size: 1.2em;">Damon Pamatat</p>				Signature 		Date (As Agent) Month Day Year 09 12 13	
Printed/Typed Name <p style="font-size: 1.2em;">Damon Pamatat</p>				Signature 		Date Month Day Year 09 12 13	
Printed/Typed Name <p style="font-size: 1.2em;">Damon Pamatat</p>				Signature 		Date Month Day Year 09 16 13	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name <p style="font-size: 1.2em;">William Johnson</p>				Signature 		Date Month Day Year 9 16 13	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

**APPENDIX M**

***Imported Backfill Documentation***

**Evergreen Recycling of Corona Inc.**

127-50 Northern Blvd.  
Flushing, NY 11368  
YARD 35th Ave. Willets Point Blvd.  
Tel: 718-205-8038 Fax: 718-205-8202

378355

**SCALE TICKET**

Ticket Number: 100270499  
Date: 9/17/2013 6:13 AM  
Trucker: Two Cousins  
Truck No.: 18  
License No.:  
Job No.:  
Entered By: valba

CHARGE \$490.00  
Customer:  
Address:  
Phone:  
Job No all island masonry

PRODUCT	YARDS/	TONS
Outbound 3/4 RCA Stone - Out		20.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

**Evergreen Recycling of Corona Inc.**

127-50 Northern Blvd.  
Flushing, NY 11368  
YARD 35th Ave. Willets Point Blvd.  
Tel: 718-205-8038 Fax: 718-205-8202

378378

**SCALE TICKET**

Ticket Number: 100270521  
Date: 9/17/2013 8:00 AM  
Trucker: Two Cousins  
Truck No.: 18  
License No.:  
Job No.:  
Entered By: valba

CHARGE \$490.00  
Customer:  
Address:  
Phone:  
Job No all island masonry

PRODUCT	YARDS/	TONS
Outbound 3/4 RCA Stone - Out		20.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY

FULL SIGNATURE—NO INITIALS

Thru 82

Evergreen Recycling of Corona Inc.  
127-50 Northern Blvd.  
Flushing, NY 11368  
YARD 35th Ave. Willets Point Blvd.  
Tel: 718-205-8038 Fax: 718-205-8202

378729

**SCALE TICKET**

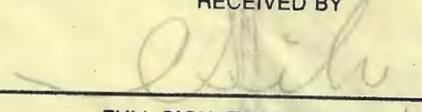
Customer: CHARGE 5490  
Address:  
Phone:  
Job No 82 TROOP ST BK

Ticket Number: 100270850  
Date: 9/18/2013 9:00 AM  
Trucker: Two Cousins  
Truck No.: ALL ISLAND  
License No.:  
Job No.:  
Entered By: hvassell

PRODUCT	YARDS/	TONS
Outbound 3/4 RCA Stone - Out		20.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY



FULL SIGNATURE—NO INITIALS

Evergreen Recycling of Corona Inc.  
127-50 Northern Blvd.  
Flushing, NY 11368  
YARD 35th Ave. Willets Point Blvd.  
Tel: 718-205-8038 Fax: 718-205-8202

378815

**SCALE TICKET**

Customer: CHARGE 5490  
Address:  
Phone:  
JOB NO TROOP BK

Ticket Number: 100270931  
Date: 9/18/2013 11:26 AM  
Trucker: Two Cousins  
Truck No.: ALL ISLAND  
License No.:  
Job No.:  
Entered By: hvassell

PRODUCT	YARDS/	TONS
Outbound 3/4 RCA Stone - Out		20.00

CURB DELIVERIES ONLY—OTHERS MADE ELSEWHERE SOLELY AT THE PURCHASER'S RISK

RECEIVED BY



FULL SIGNATURE—NO INITIALS

**APPENDIX N**  
***Sustainability Report***

## APPENDIX N

# SUSTAINABILITY REPORT

This Remedial Action Work Plan provides for sustainable remediation and redevelopment through a variety of means that are defined in this Sustainability Report.

**Reuse of Clean, Recyclable Materials.** Reuse of clean, recyclable materials reduces consumption of non-renewable virgin resources and can provide energy savings and greenhouse gas reduction since these materials can be locally-derived.

An estimate of the tonnage of recycled concrete aggregate reused on this project is 80 tons.

**Recontamination Control.** Recontamination after cleanup and redevelopment is completed undermines the value of work performed, may result in a property that is less protective of public health or the environment, and may necessitate additional cleanup work later that could impede future redevelopment. Recontamination can arise from future releases that occur within the property or by influx of existing contamination from off-Site.

As a part of construction, a passive sub-slab depressurization system and a 20-mil vapor barrier were installed to eliminate the risk of future migration of soil vapor contamination from off-Site. In addition, the entire Site is capped with concrete, which would prevent future on-Site spills from impacting sub-surface soil. The area of the Site that utilizes recontamination controls under this plan is 100% of the property, or 2,548 square feet.

**Paperless Brownfield Cleanup Program.** Throop Wallabout Realty LLC participated in OER's Paperless Brownfield Cleanup Program. Under this program, submission of electronic documents replaced submission of hard copies for the review of project documents, communications and milestone reports. A best estimate of the mass (pounds) of paper saved under this plan is 25 lbs.

**Low-Energy Project Management Program.** Throop Wallabout Realty LLC participated in OER's low-energy project management program. Under this program, whenever possible, meetings were held using remote communication technologies, such as videoconferencing and

teleconferencing to reduce energy consumption and traffic congestion associated with personal transportation. A gross estimate of the number of miles of personal transportation that was conserved in this process is 300 miles.

**Trees and Plantings.** Trees and other plantings provide habitat and add to NYC's environmental quality in a wide variety of ways. Native plant species and native habitat provide optimal support to local fauna, promote local biodiversity, and require less maintenance. The number of trees planted as part of this redevelopment is 5.