

Phase II Environmental Site Assessment

Selective Sampling Investigation

July 26, 2001

01-222A

conducted at:

**2425 Atlantic Avenue / 30 - 42 Havens Place
Brooklyn, New York
New York City Tax Map Designation: Block 1574; Lot 23**

prepared for:

**Comprehensive Archives, Inc.
87-46 123rd Street
Richmond Hill, New York**

report user:

**The Bank of New York
123 Main Street
White Plains, New York**

IMPACT ENVIRONMENTAL

◆ a division of impact environmental consulting, inc.

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1.0 Purpose & Scope

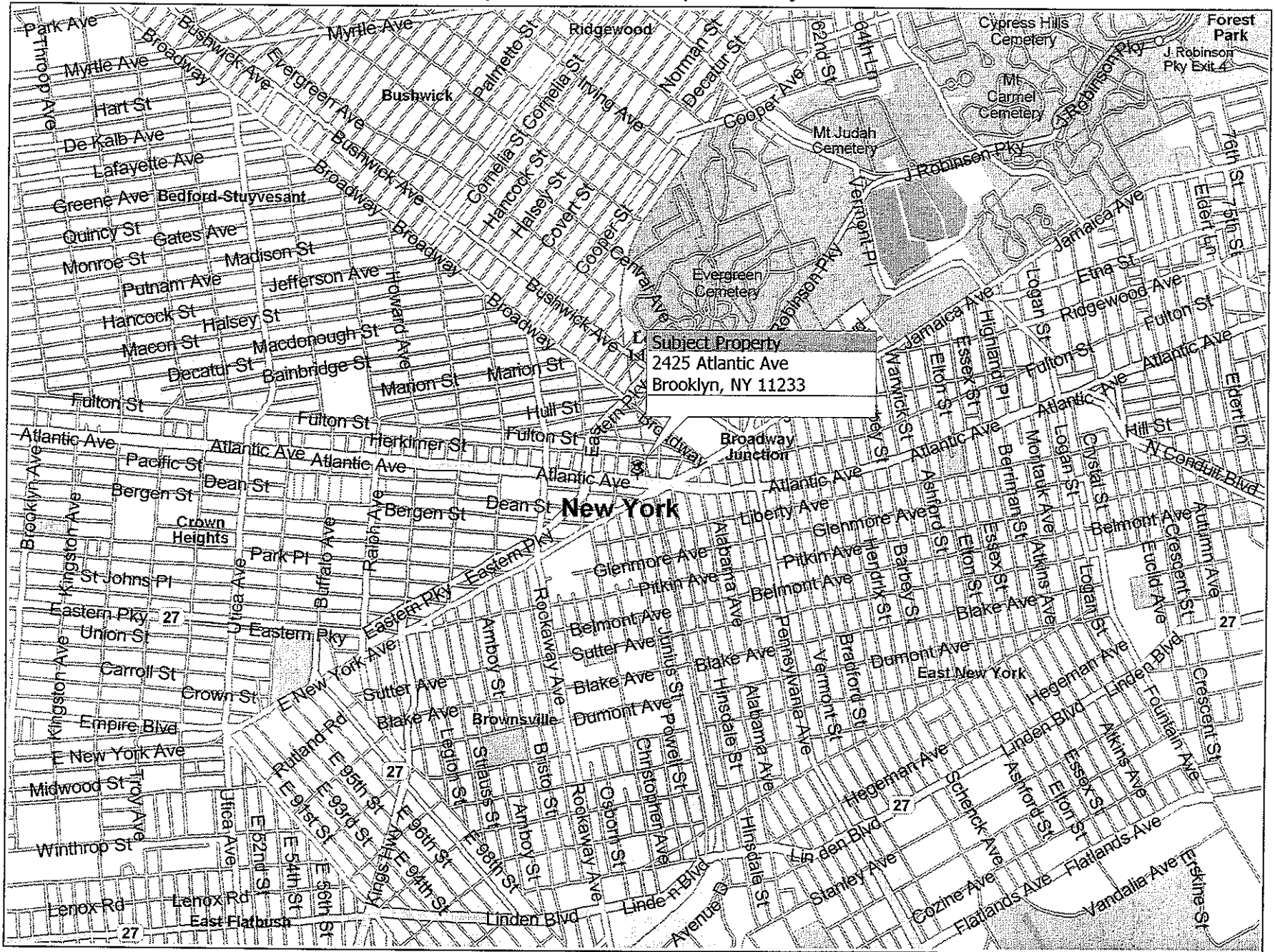
This Phase II Environmental Site Assessment (ESA) was conducted to define what, if any, contaminants have impacted the environmental quality of the property located at 2425 Atlantic Avenue / 30-42 Havens Place, Brooklyn, New York, herein identified as the subject property. The scope of this investigation was based on the recommendations presented in a Phase I ESA report prepared by Impact Environmental Consulting, Inc., dated July 12, 2001. Said assessment identified issues requiring supplemental data to further define the environmental quality of the subject property.

The investigative protocols used for this assessment were based, in part, upon the following documents: 1) the New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum (TAGM) #4046, Determination of Soil Cleanup Objectives; and 2) the New York State Department of Environmental Conservation, Sampling Guidelines and Protocols, Technical Background and Quality Control Assurance for the New York State Department of Environmental Conservation Spill Response Program, dated September 1992. The activities performed under the scope of this investigation have been summarized in this report in the following sections.

- **Site Description**
- **Survey, Sampling and Analysis Plan**
- **Quality Assurance and Control Procedures (QA/QC)**
- **Laboratory Analysis**
- **Evaluation of Results**
- **Conclusions**

Presented herein are the results of the Phase II Environmental Site Assessment conducted by Impact Environmental Consulting, Inc. on the subject property [see **Plate 1: Project Location Map, Brooklyn, New York**].

Plate #1: Project Location Map, Brooklyn, New York



2.0 Site Description

All of the information presented in this section of the report was compiled during the performance of the Phase I ESA.

2.1 Topography

The areal extent of the subject property was approximately 17,500 square feet. The subject property contained one two-story, masonry building with an approximate footprint of 10,600 square feet. The surface area of the subject property consisted of asphalt parking areas, concrete walkways, and scrub vegetation. The subject property exhibited low topographic relief (less than three percent slopes).

2.2 Land Use

The interior of the building was utilized as office and operational space. The interior space was divided to facilitate two tenants. The upper floor was vacant at the time of inspection, but was reportedly last occupied by The Candle Factory, a candle manufacturer. The lower floor was occupied by Active World Solutions, a silk screened clothing distributor. A boiler room was located in the southwestern corner of the lower floor of the building.

2.3 Recognized Environmental Conditions

The Phase I ESA revealed evidence of two inactive underground storage tanks (USTs) on the subject property. No records were available concerning the management of these USTs. This absence of records represents a *recognized environmental condition*. Accordingly, it was recommended that a remote sensing survey be performed to confirm the presence and orientation of any abandoned USTs, and that a limited subsurface investigation be performed to determine if the use of these USTs impacted the environmental quality of the subject property.

The Phase I ESA identified four unpermitted underground injection wells (UIWs). The industrial use of the property has created the potential for these structures to have been polluted from organic and inorganic contaminants. This potential represents a *recognized environmental condition*. Consequently, it was recommended that a limited subsurface investigation be performed to determine if the UIWs have received any discharges that may have impacted the environmental quality of the subject property.

3.0 Survey, Sampling and Analysis Plan

A survey, sampling and analysis program was developed to address the recognized environmental conditions identified in the Phase I ESA. The plan included: 1) a remote sensing survey to confirm the presence of any abandoned USTs; and 2) an investigation to determine what, if any, contaminants were released to the subsurface soil of the subject property as a result of on-site operations. The following work was performed to satisfy the sampling and analysis plan. All locations can be referenced with **Plate 2: Sample Acquisition Plan, Brooklyn, New York**.

3.1 Remote Sensing Survey

A remote sensing survey was performed over portions of the planimetric surface of the subject property to identify the presence of any abandoned USTs at locations corresponding to information provided in the Phase I ESA. A GSSI model SIR-2 ground penetrating radar (GPR) system equipped with a 400MHz antenna was used to perform the survey. An analysis of the data collected from the survey identified two significant subsurface anomalies.

An anomaly was detected on the northern side of the existing building immediately adjacent to a structure that contained a heating unit. Based on the data collected from the survey in this area, it was anticipated that a UST was situated beneath this heating unit. The UST had an east-west orientation

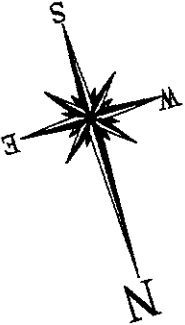
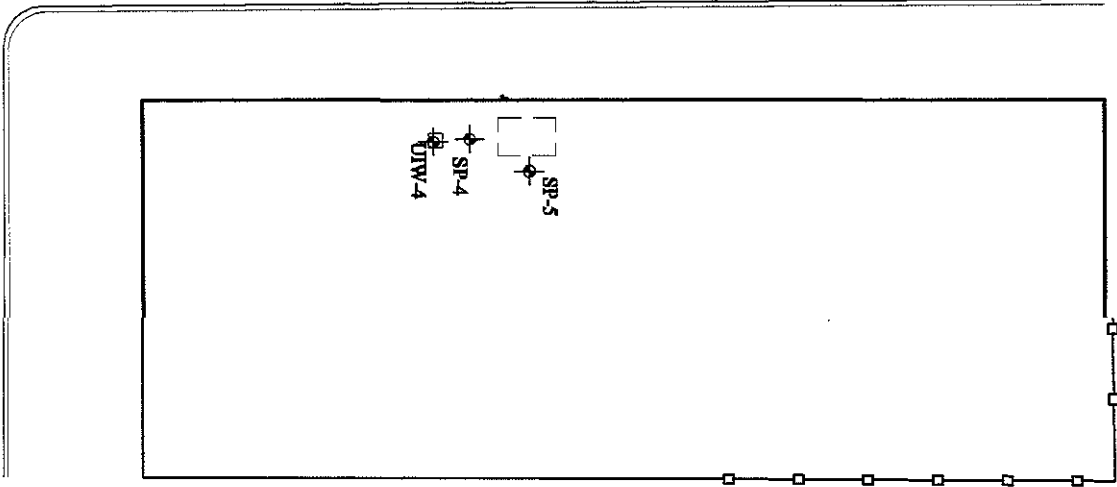
An anomaly was detected on the southern side of the building within the basement. This anomaly was interpreted to represent a UST beneath the basement slab. The UST had an east-west orientation.

3.1.1 GPR Procedures

A GPR system consists of a radar control unit, control cable and a transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 50 KHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulses into bipolar pulses that are radiated to the subsurface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit represented as color graphic images for interpolation. This system is capable of transmitting electromagnetic energy in the frequency range of 16MHz to 2000MHz.

A qualified Impact Environmental Consulting, Inc. technician specified a coordinate system on the planimetric surface of the site to map any subsurface dielectric anomalies detected on the premises. The operator used

Atlantic Avenue



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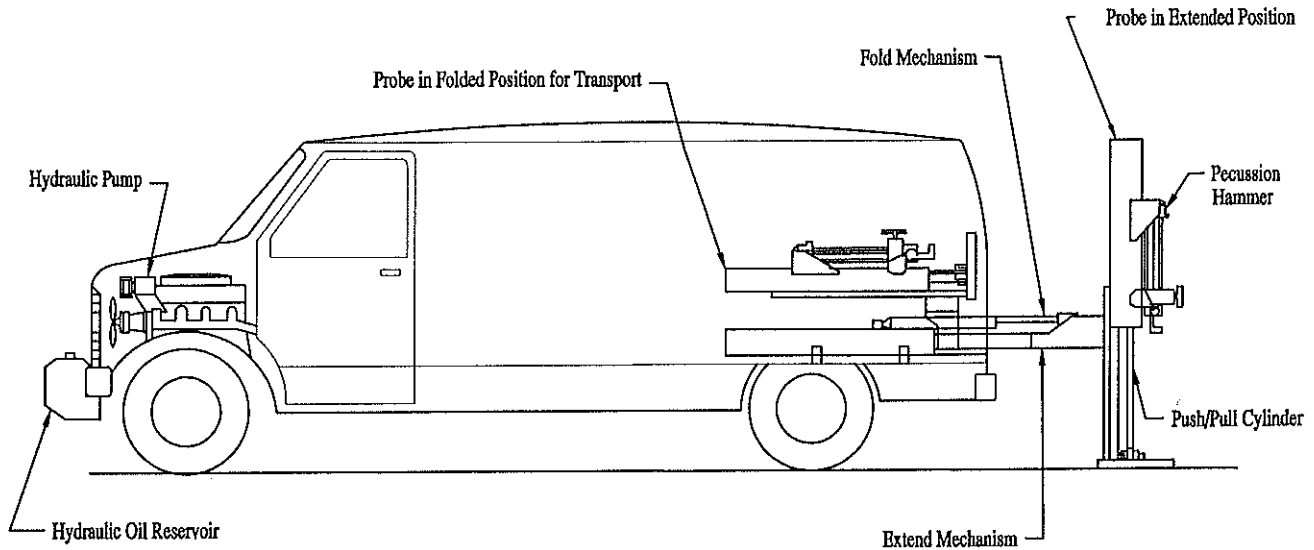
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Plate 2: Sample Acquisition Plan
Brooklyn, New York

Legend

⊕ soil probe node

scale: 1" = 20'

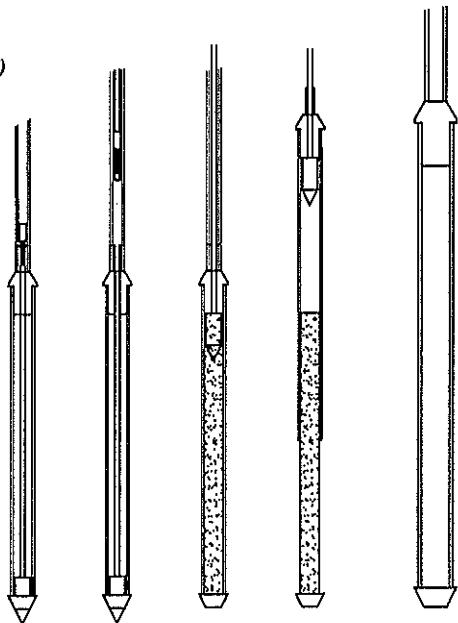


Basics

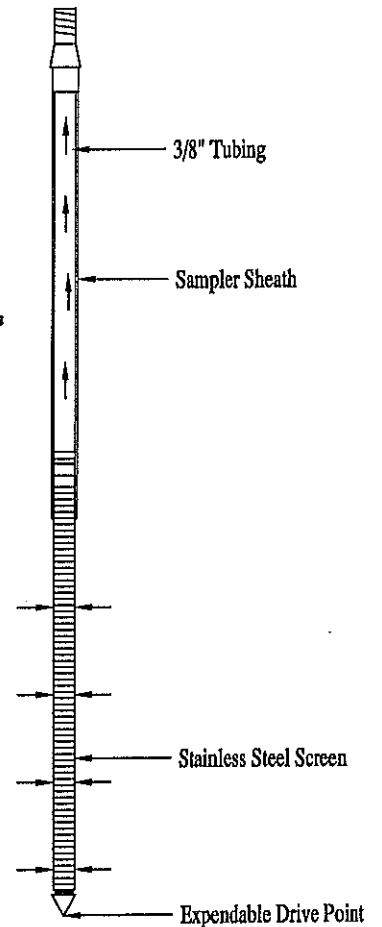
- ◆ Hydraulic powered probe unit is operated from a engine driven pump.
- ◆ Remote vehicle ignition allows operator to start engine from probe unit.
- ◆ Belt driven hydraulic pump supplies 10 gpm @ 2000 rpm, 3000 psi operating pressure
- ◆ Probe unit folds for transport
- ◆ Unit utilizes static weight of vehicle and pecussion hammer to advance probing tools.
- ◆ Hydraulic hammer delivers pecussion rate of 30 Hz.
- ◆ Probes have greater than 18,000 lbs of down force and 25,000 lbs of retraction force.
- ◆ Drives multiple diameter probes (1", 1.25" and 2.25") to depths over 100 feet.

◆ **Soil Probing Tool**
The tools are advanced and a sample is acquired in a non-reactive plastic sheathing. The system offers two sizes of sample retrieval:

Large bore - 1.5" x 2'
 Macro - 2.25" x (2', 3' & 4')



▲ **Groundwater SP-15 Sampler**
The tool allows a stainless steel, 4' screen to be delivered to the underlying groundwater. At the desired depth, the screen is retracted and samples are obtained via a check valve assembly.



were secured at the desired depths and were contained within a non-reactive transparent plastic sleeve that lined the hollow probe. The plastic sleeves were removed for subsequent inspection and sample aliquot acquisition.

3.3 Headspace Analysis

Headspace analysis was performed on each unsaturated soil sample acquired from probe nodes SP-1, SP-2, SP-3, SP-4 and SP-5 to provide precursory data regarding contamination. Results of the analysis were used to adjust the sample and analysis program to yield the most accurate and representative results. The results of the field analysis are presented in **Table 1: Field Headspace Analysis Results, Brooklyn, New York**.

Table 1: Field Headspace Analysis Results, Brooklyn, New York

Sample ID	SP-1	SP-2	SP-3	SP-4	SP-5
<i>Unit</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>
Depth BEG					
0'-2'	<1	<1	<1	<1	<1
2'-4'	<1	24.3	<1	1.5	<1
4'-6'	<1	13.2	<1	<1	<1
6'-8'	<1	2.3	<1	<1	<1
8'-10'	<1	<1	<1	<1	<1

3.3.1 Headspace Analysis Procedure

Headspace analysis was performed on each of the acquired samples utilizing a portable photo ionization detection meter to measure what, if any, hydrocarbon concentrations were present in isolated portions of the secured samples. Headspace analysis was conducted by partially filling a wide-mouth glass container with sample aliquot and sealing the top with aluminum foil, thereby creating a void. This void is referred to as the sample headspace.

To facilitate the detection of any hydrocarbons contained within the head space, the container was agitated for a period of thirty (30) seconds. The probe of the vapor analyzer was then injected through the foil into the headspace to measure the hydrocarbon concentrations present. A Photovac Micro-Tip, photo ionization detection meter (PID) was the organic vapor analyzer selected for the head space analysis. A PID utilizes the principle of photo ionization for detection and measurement of hydrocarbon compounds. A PID does not respond to all compounds similarly; rather, each compound has its own response factor relative to its calibration. For this investigation, the PID was calibrated to isobutylene. Hydrocarbon relative response factors for a PID calibrated to isobutylene are published by the manufacturer.

3.4 Sample Characterization

A visual inspection of all samples recovered during the installation of each of the soil probes was conducted to identify any gross signs of chemical contamination and to classify the sample media. Color classifications were made in accordance with the Munsell Classification System. Gradation classifications were made in accordance with the Unified Soil Classification System.

In general, the samples obtained under the scope of this investigation were found to consist of a brown fine to medium sand with gravel. Odors consistent with petroleum product were noted in samples secured from soil probe node SP-2.

3.5 Laboratory Sample Location and Frequency

The samples secured from probe nodes SP-1, SP-2, SP-3, SP-4 and SP-5 were subjected to headspace analysis. The headspace analysis of the subsurface soil samples secured from SP-2 and SP-4 detected concentrations of hydrocarbons above ambient levels (see Table 1). The soil samples selected for laboratory analysis were intended to represent soil quality based on the highest field headspace analysis or the deepest samples secured where no response was detected from field screening activities.

The samples selected for laboratory analysis with respect to the USTs were labeled for identification purposes as: 01-222A-SP-2 (2'-4') and 01-222A-SP-4 (1'-3).

The samples selected for laboratory analysis with respect to the UIWs were labeled for identification purposes as: 01-222A-UIW-1, 01-222A-UIW-2, 01-222A-UIW-3 and 01-222A-UIW-4.

The soil and groundwater samples selected for laboratory analysis were containerized in the appropriate vessels, preserved at 40C in a cooler and transported under proper chain-of-custody procedures to a NYS-DOH certified commercial laboratory for analysis.

4.0 Quality Assurance and Quality Control Procedures (QA/QC)

The following sampling QA/QC protocol is in accordance with the United States Environmental Protection Agency's (USEPA) accepted sampling procedures for hazardous waste streams [Municipal Research Laboratory, 1980, Sampling and Analysis Procedures for Hazardous Material Waste Streams, Office of Emergency and Remedial Response, Cincinnati, Ohio. EPA-600/280-018] and American Society of Testing and Material's (ASTM's) Sampling Procedures.

4.1 Sampling Personnel

The activities associated with the survey, sampling and analysis plan were performed by or under the auspices of a USEPA Office of Emergency and Remedial Response, Certified Sampler for Hazardous Materials. The sample staff (samplers) possessed a minimum of a B.A. Degree in the Earth, Space or Biological Sciences or a B.S. Degree in Engineering. Samplers had a minimum of one (1) year experience in environmental/geological field work. Additionally, all samplers had received mandatory forty-hour Occupational Safety and Health Administration (OSHA) training on working with potentially hazardous materials and appropriate Hazard Communication Program and "Right-To-Know" training.

4.2 Sampling Equipment

Separate QA/QC measures were implemented for each of the instruments used in the performance of the SAP.

4.2.1 Geoprobe

Prior to arrival on the subject property and between sample locations, the probes were decontaminated by washing them with a detergent (Alconox) and potable water solution and rinsing them with distilled water.

4.2.2 Photo Ionization Detector

Calibration of the PID was conducted prior to sampling using a span gas of known concentration. The PID was a Photovac Micro-Tip, photo ionization detection meter.

4.2.3 *Sample Vessels*

All sample vessels were "level A" certified decontaminated containers supplied by a New York State Certified Commercial Laboratory. Samples analyzed for hydrocarbons were placed in containers with Teflon lined caps. All samples were preserved by cooling them to a temperature of approximately four degrees Celsius.

4.3 Sample Documentation

A sample represents physical evidence. An essential part of liability reduction is the proper control of gathered evidence. To establish proper control, the following sample identification and chain-of custody procedures were followed.

4.3.1 *Sample Identification*

Sample identification was executed by use of a sample tag, log book and chain-of-custody form. Said documentation provided the following information: 1) the project code; 2) the sample laboratory number; 3) the sample preservation; 4) instrument used for source sample grabs; 5) the composite medium used for source sample grabs; 6) the date the sample was secured from the source media; 7) the time the sample was secured from the source media; and 8) the person who secured the sample from the source media.

4.3.2 *Chain-of-Custody Procedures*

Due to the evidential nature of samples, possession was traceable from the time the samples were collected until they were received by the testing laboratory. A sample was considered under custody if it: was in a person's possession; it was in a person's view, after being in possession; if it was in a person's possession and they locked it up; or, it was in a designated secure area. When transferring custody, the individuals relinquishing and receiving the samples signed, dated and noted the time on the Chain-of-Custody Form.

4.3.3 *Laboratory-Custody Procedures*

A designated sample custodian accepted custody of the shipped samples and verified that the information on the sample tags matched that on the Chain-of-Custody Records. Pertinent information as to shipment, pick-up, courier, etc., were entered in the "remarks" section. The custodian entered the sample tag data into a bound logbook.

The laboratory custodian used the sample tag number, or assigned a unique laboratory number to each sample tag, and assured that all samples were transferred to the proper analyst or stored in the appropriate source area. The

laboratory custodian distributed samples to the appropriate analysts. Laboratory personnel were responsible for the care and custody of samples, from the time they were received, until the sample was exhausted or returned to the sample custodian. All identifying data sheets and laboratory records were retained as part of the permanent documentation. Samples received by the laboratory were retained until after analysis and quality assurance checks were completed.

5.0 Laboratory Analysis

5.1 Analytical Test Methods

The samples were transported to a New York State Certified Commercial Laboratory for analysis. Selection of the analytical test methods was based on the New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum (TAGM) #4046, Determination of Soil Cleanup Objectives.

The laboratory analysis performed on the samples secured from probe nodes SP-2 and SP-4 consisted of United States Environmental Protection Agency (USEPA) Test Method 8260 (TAGM) for target volatile organic analytes and USEPA Test Method 8270 (TAGM) for target base-neutral semi-volatile organic analytes.

The laboratory analysis performed on the samples secured from probe nodes UIW-1, UIW-2, UIW-3 and UIW-4 consisted of USEPA Test Method 8260 (TAGM) for target volatile organic analytes, USEPA Test Method 8270 (TAGM) for target base-neutral semi-volatile organic analytes and USEPA Test Method 6010 for target inorganic analytes.

5.2 Analytical Results

The laboratory analysis performed on the subsurface soil samples secured from probe nodes SP-2 and SP-4 detected concentrations of target volatile and semi-volatile organic analytes.

The laboratory analysis performed on the subsurface soil samples secured from probe nodes UIW-1, UIW-2, UIW-3 and UIW-4 detected concentrations of target volatile, semi-volatile organic and inorganic analytes.

Table 2: Detected Analytes, *Brooklyn, New York* presents a summary of the detected concentrations versus the relevant guidance values that apply in New York State. The original laboratory analysis report as prepared by Long Island Analytical Laboratories, Inc. is presented in **Appendix A** of this document.

Table 2: Detected Analytes
Brooklyn, New York
01-222A

Sample ID	SP-2 (2'-4')	SP-4 (1'-3')	UIW-1	UIW-2	UIW-3	UIW-4	NYSDEC TAGM #4046 Recommended Soil Cleanup Objectives	NYSDEC McGovern Background Levels
Units	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	mg/Kg
Volatile Organic Analytes:								
Acetone	ND	ND	ND	ND	ND	61	200	NA
Ethylbenzene	1,627	ND	ND	ND	ND	ND	5,500	NA
Trichloroethene	ND	ND	12	9	8	5	700	NA
Tetrachloroethene	ND	ND	10	11	12	15	1,400	NA
Toluene	683	ND	ND	ND	ND	ND	1,500	NA
Total Xylenes	7,788	5	ND	ND	ND	ND	1,200	NA
Total VOCs	10,098	5	22	20	20	81	10,000	NA
Semi-Volatile Organic Analytes:								
Naphthalene	10,930	299	ND	335	ND	308	13,000	NA
2-Methylnaphthalene	37,370	804	524	790	ND	561	36,400	NA
Acenaphthene	1,727	77	ND	ND	ND	4,589	50,000	NA
Fluorene	5,063	217	ND	ND	ND	795	50,000	NA
Diethylphthalate	ND	40	ND	ND	ND	ND	7,100	NA
Phenanthrene	16,393	1,029	362	344	ND	4,682	50,000	NA
Anthracene	216	79	ND	ND	ND	396	50,000	NA
Di-n-Butylphthalate	ND	804	522	640	608	ND	8,100	NA
Di-n-Octylphthalate	ND	5,535	508	5,159	ND	768	50,000	NA
Fluoranthene	ND	194	420	399	ND	1,216	50,000	NA
Pyrene	1,810	321	544	433	ND	7,417	50,000	NA
Butylbenzylphthalate	ND	3,499	692	898	583	493	50,000	NA
Benzo-a-Anthracene	ND	70	ND	ND	ND	393	224	NA
Chrysene	78	100	449	ND	ND	859	400	NA
Bis(2-Ethylhexyl)Phthalate	46	2,727	17,238	18,727	12,165	5,570	50,000	NA
Benzo-b-Fluoroanthene	ND	67	382	ND	ND	ND	224	NA
Benzo-k-Fluoroanthene	ND	48	ND	ND	ND	ND	224	NA
Benzo-a-Pyrene	ND	60	564	ND	ND	ND	61	NA
Indeno(1,2,3-c,d)Pyrene	ND	44	610	ND	380	ND	3,200	NA
Dibenzofuran	1,953	ND	ND	ND	ND	ND	6,200	NA
Benzo-g,h,i-Perylene	ND	48	2,432	ND	1,193	ND	50,000	NA
Total SVOCs	75,586	16,062	25,247	27,725	14,929	28,047	500,000	NA
Unit	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Inorganics Analytes:								
Silver, Ag	NA	NA	1.95	1.77	4.32	ND	SB	NA
Barium, Ba	NA	NA	120	170	171	106	300 or SB	15-600
Cadmium, Cd	NA	NA	10.3	10.3	18.1	14.6	1 or SB	0.1 - 1.0
Copper, Cu	NA	NA	1795	915	791	482	25 or SB	1.0 - 50.0
Nickel, Ni	NA	NA	47.4	46	55	41.2	13 or SB	0.5 - 25.0
Selenium, Se	NA	NA	ND	ND	ND	30.4	2 or SB	0.1 - 3.9
Zinc, Zn	NA	NA	11575	8130	8503	6064	20 or SB	9.0 - 50.0
Iron, Fe	NA	NA	104,452	89,692	71,673	63,090	2,000 or SB	2,000 - 550,000
Manganese, Mn	NA	NA	455	418	465	273	SB	50 - 5,000
Lead, Pb	NA	NA	415	559	342	190	SB	200 - 500
Mercury, Hg	NA	NA	0.22	0.12	0.35	0.39	0.1	0.001 - 0.2
Arsenic, As	NA	NA	22.2	19.5	15	12.9	7.5 or SB	3.0 - 12.0
Chromium, Cr	NA	NA	74.2	83.5	77.2	69.8	50 or SB	1.5 - 40.0

Bold values represent concentrations above guidance values
 ND: Not Detected
 NA: Not Available

6.0 Evaluation of Results

A remote sensing survey was performed over portions of the planimetric surface of the subject property to identify the presence of any abandoned USTs at locations corresponding to information provided in the Phase I ESA. A GSSI model SIR-2 ground penetrating radar (GPR) system equipped with a 400MHz antenna was used to perform the survey. An analysis of the data collected from the survey identified two significant subsurface anomalies. An anomaly was detected on the northern side of the existing building immediately adjacent to a structure that contained a heating unit. Based on the data collected from the survey in this area, it was supposed that a UST was situated beneath this heating unit. An anomaly was detected on the southern side of the building within the basement. This anomaly was interpreted to represent a UST beneath the basement slab. These areas were sampled as part of this investigation.

The samples secured from probe nodes SP-1, SP-2, SP-3, SP-4 and SP-5 were subjected to field headspace analysis. The headspace analysis of the subsurface soil samples secured from probe nodes SP-2 and SP-4 detected concentrations of hydrocarbons above ambient levels. The laboratory analysis performed on the subsurface soil samples secured from probe nodes SP-2 and SP-4 detected concentrations of target volatile and semi-volatile organic analytes. Several of the concentrations detected from SP-2 were above the applicable guidance criteria.¹ This data indicates that the former operation and maintenance of the UST identified on the northern side of the existing building actuated a significant release of product to the underlying subsurface soil.

The detected concentrations exhibited from SP-4 were below the applicable guidance criteria.² This data indicates that the former operation and maintenance of the UST identified beneath the basement of the existing building has not actuated a significant release of product to the underlying subsurface soil.

The laboratory analysis performed on the subsurface soil samples secured from probe nodes UIW-1, UIW-2, UIW-3 and UIW-4 detected concentrations of target volatile, semi-volatile organic and inorganic analytes. The detected volatile organic analyte concentrations detected were below the applicable guidance criteria.³ Several of the semi-volatile organic analyte concentrations detected from probe nodes UIW-1 and UIW-4 were above the applicable guidance criteria.⁴ Several of the inorganic analyte concentrations detected within samples from probe nodes UIW-1, UIW-2, UIW-3 and UIW-4 were above the applicable guidance criteria.⁵

¹ New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum (TAGM) #4046, Determination of Soil Cleanup Objectives.

² Ibid

³ Ibid

⁴ Ibid

⁵ Ibid

7.0 Conclusions

Impact Environmental Consulting, Inc. has performed a Phase II Environmental Site Assessment, Selective Sampling Investigation on the subject property in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry. The investigation consisted of the sampling and analysis of subsurface soil and groundwater to further define the environmental quality of the subject property with respect to the recognized environmental conditions outlined in Section 2.3 of this document.

Based upon this assessment, dated July 26, 2001, Impact Environmental Consulting, Inc. concludes that the former operation and maintenance of the UST adjacent to the northern side of the existing building has impacted the environmental quality of the subject property. Accordingly, it is recommended that the UST be properly abandoned and that the NYSDEC be contacted to determine what, if any, actions are necessary to mitigate the detected contaminants.

Further, it has been determined that the UIWs identified within the basement of the building have received discharges that have impacted the environmental quality of the subject property. Accordingly, it is recommended that the detected contaminants within the UIWs be mitigated and that the UIWs be backfilled and permanently sealed. These activities should be performed under the auspices of the USEPA.

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The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by the Client.

In preparing this report, Impact Environmental Consulting, Inc. may have relied on certain information provided by state and local officials and other parties referenced therein, and on information contained in the files of state and/or local agencies available to Impact Environmental Consulting, Inc. at the time of the subject property assessment. Although there may have been some degree of overlap in the information provided by these various sources, Impact Environmental Consulting, Inc. did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this subject property assessment.

Observations were made of the subject property and of structures on the subject property as indicated within the report. Where access to portions of the subject property or to structures on the subject property was unavailable or limited, Impact Environmental Consulting, Inc. renders no opinion as to the presence of non-hazardous or hazardous materials, or to the presence of indirect evidence relating to non-hazardous or hazardous materials, in that portion of the subject property or structure. In addition, Impact Environmental Consulting, Inc. renders no opinion as to the presence of hazardous materials, or the presence of indirect evidence relating to hazardous materials, where direct observation of the interior walls, floor, or ceiling of a structure on a subject property was obstructed by objects or coverings on or over these surfaces.

Impact Environmental Consulting, Inc. did not perform testing or analyses to determine the presence or concentration of asbestos at the subject property or in the environment of the subject property under the scope of the services performed.

The conclusions and recommendations contained in this report are based in part, where noted, upon the data obtained from a limited number of soil samples obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

Any water level readings made in test pits, borings, and/or observation wells were made at the times and under the conditions stated in the report. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.

Except as noted within the text of the report, no qualitative laboratory testing was performed as part of the subject property assessment. Where such analyses have been conducted by an outside laboratory, Impact Environmental Consulting, Inc. has relied upon the data provided, and has not conducted an independent evaluation of the reliability of the data.

The conclusions and recommendations contained in this report are based in part, where noted, upon various types of chemical data and are contingent upon their validity. The data have been reviewed and interpretations were made in the report. As indicated within the report, some of the data may be preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, the data should be reviewed, and the conclusions and recommendations presented herein modified accordingly.

Chemical analyses have been performed for specific constituents during the course of this subject property assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the subject property.

APPENDIX A:

Laboratory Report, Long Island Analytical Laboratories, Inc.
Brooklyn, New York
01-222A



**LONG
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ANALYTICAL
LABORATORIES INC.**

NYSDOH ELAP# 11693
USEPA# NY01273

"TOMORROW'S ANALYTICAL SOLUTIONS TODAY"

1 of 23 pages

July 26, 2001

Impact Environmental
Kevin Kleaka
1 Village Plaza
Kings Park, New York, 11754

Re: 01-222A Brooklyn

Dear Mr. Kleaka:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on July 23, 2001. Long Island Analytical Laboratories analyzed the samples on July 25, 2001 for the following:

CLIENT ID	ANALYSIS
01-222A-SP-2 (2'-4')	TAGM Volatile and Semi-Volatile Analysis
01-222A-SP-4 (1'-3')	TAGM Volatile and Semi-Volatile Analysis
01-222A-UIW-1	TAGM Volatile and Semi-Volatile Analysis, Total (13) Metals
01-222A-UIW-2	TAGM Volatile and Semi-Volatile Analysis, Total (13) Metals
01-222A-UIW-3	TAGM Volatile and Semi-Volatile Analysis, Total (13) Metals
01-222A-UIW-4	TAGM Volatile and Semi-Volatile Analysis, Total (13) Metals

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-SP-2 {2'-4'})
Date received: 7/23/01	Laboratory ID: 0117479
Date extracted: 7/24/01	Matrix: Soil
Date analyzed: 7/24/01	ELAP #: 11693

NYS TAGM VOLATILES

Parameter	CAS No.	Results ug/kg
ACETONE	62-64-1	<1,000
BENZENE	71-43-2	<100
2-BUTANONE (MEK)	78-93-3	<200
CARBON DISULFIDE	75-15-0	<100
CARBON TETRACHLORIDE	56-23-5	<100
CHLOROBENZENE	108-90-7	<100
CHLOROETHANE	75-00-3	<100
CHLOROFORM	67-66-3	<100
DIBROMOCHLOROMETHANE	1868-53-7	<100
1,2-DICHLOROBENZENE	95-50-1	<100
1,3-DICHLOROBENZENE	541-73-1	<100
1,4-DICHLOROBENZENE	106-48-7	<100
1,1-DICHLOROETHANE	75-34-3	<100
1,2-DICHLOROETHANE	107-06-2	<100
1,1-DICHLOROETHENE	75-35-4	<100
trans-1,2-DICHLOROETHENE	156-60-5	<100
1,3-DICHLOROPROPANE	142-28-9	<100
ETHYLBENZENE	100-41-4	1,627
1,1,2-TRICHLOROETHANE	79-00-5	<100
METHYLENE CHLORIDE	75-09-2	<100
4-METHYL-2-PENTANONE	108-10-1	<100
TETRACHLOROETHENE	127-18-4	<100
1,1,1-TRICHLOROETHANE	71-55-6	<100
1,1,2,2-TETRACHLOROETHANE	79-34-5	<100
1,2,3-TRICHLOROBENZENE	87-61-6	<100
1,2,4-TRICHLOROBENZENE	120-82-1	<100
TOLUENE	108-88-3	683
TRICHLOROETHENE	79-01-6	<100
VINYL CHLORIDE	75-01-4	<100
p & m-XYLENE	1330-20-7	5,227
o-XYLENE	1330-20-7	2,561

Note: MDL's are raised due to high levels of non-target compounds.

Michael Veraldi

Laboratory Director



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-SP-2 {2'-4'})
Date received: 7/23/01	Laboratory ID: 0117479
Date extracted: 7/24/01	Matrix: Soil
Date analyzed: 7/24/01	ELAP #: 11693

NYS TAGM SEMI-VOLATILES

Parameter	CAS No.	Results ug/kg
ACENAPHTHENE	83-32-9	1,727
ACENAPHTHYLENE	208-96-8	<40
ANILINE	65-53-3	<40
ANTHRACENE	120-12-7	216
BENZO-a-ANTHRACENE	56-55-3	<40
BENZO-a-PYRENE	50-32-8	<40
BENZO-b-FLUOROANTHENE	206-99-2	<40
BENZO-g,h,i-PERYLENE	191-24-2	<40
BENZO-k-FLUOROANTHENE	207-08-9	<40
Bis(2-ETHYLEXYL)PHTHALATE	117-81-7	46
BUTYLBENZYLPHthalATE	86-68-7	<40
CHRYSENE	218-01-9	78
4-CHLOROANILINE	106-47-8	<40
4-CHLORO-3-METHYLPHENOL	59-50-7	<40
2-CHLOROPHENOL	95-57-8	<40
DIBENZOFURAN	132-64-9	1,953
DIBENZO-a,h-ANTHRACENE	53-70-3	<40
3,3-DICHLOROBENZIDINE	91-94-1	<40
2,4-DICHLOROPHENOL	102-83-2	<40
2,4-DINITROPHENOL	51-28-5	<40
2,6-DINITROTOLUENE	806-20-2	<40
DIETHYLPHthalATE	84-66-2	<40
DIMETHYLPHthalATE	131-11-3	<40



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-SP-2 (2'-4'))
Date received: 7/23/01	Laboratory ID: 0117479
Date extracted: 7/24/01	Matrix: Soil
Date analyzed: 7/24/01	ELAP #: 11693

NYS TAGM SEMI-VOLATILES

Parameter	CAS No.	Results ug/kg
Di-n-BUTYLPHthalate	84-74-2	<40
Di-n-OCTYLPHthalate	117-84-0	<40
FLUORANTHENE	206-44-0	254
FLUORENE	86-73-7	5,063
HEXACHLORO BENZENE	118-74-1	<40
INDENO(1,2,3-c,d)PYRENE	193-39-5	<40
ISOPHORONE	78-59-1	<40
2-METHYLNAPHTHALENE	91-57-6	37,370
2-METHYLPHENOL	95-48-7	<40
4-METHYLPHENOL	106-44-5	<40
NAPHTHALENE	91-20-3	10,930
NITROBENZENE	98-95-3	<40
2-NITROANILINE	88-74-4	<40
2-NITROPHENOL	88-75-5	<40
4-NITROPHENOL	100-02-7	<40
3-NITROANILINE	99-09-2	<40
PENTACHLOROPHENOL	87-86-5	<40
PHENANTHRENE	85-01-8	16,393
PHENOL	108-95-1	<40
PYRENE	129-00-0	1,810
2,4,5-TRICHLOROPHENOL	95-95-4	<40

Michael Venezia

Laboratory Director



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-SP-4 (1'-3'))
Date received: 7/23/01	Laboratory ID: 0117480
Date extracted: 7/24/01	Matrix: Soil
Date analyzed: 7/24/01	ELAP #: 11693

NYS TAGM VOLATILES

Parameter	CAS No.	Results ug/kg
ACETONE	62-64-1	<50
BENZENE	71-43-2	<5
2-BUTANONE (MEK)	78-93-3	<10
CARBON DISULFIDE	75-15-0	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
DIBROMOCHLOROMETHANE	1868-53-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
ETHYLBENZENE	100-41-4	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
METHYLENE CHLORIDE	75-09-2	<5
4-METHYL-2-PENTANONE	108-10-1	<5
TETRACHLOROETHENE	127-18-4	<6
1,1,1-TRICHLOROETHANE	71-55-8	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
TOLUENE	108-88-3	<5
TRICHLOROETHENE	79-01-6	<5
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	5

Michael Veraldi

Laboratory Director



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-SP-4 (1'-3'))
Date received: 7/23/01	Laboratory ID: 0117480
Date extracted: 7/23/01	Matrix: Soil
Date analyzed: 7/23/01	ELAP #: 11693

NYS TAGM SEMI-VOLATILES

Parameter	CAS No.	Results ug/kg
ACENAPHTHENE	83-32-9	77
ACENAPHTHYLENE	208-96-8	<40
ANILINE	65-53-3	<40
ANTHRACENE	120-12-7	79
BENZO-a-ANTHRACENE	56-55-3	70
BENZO-a-PYRENE	50-32-8	60
BENZO-b-FLUOROANTHENE	205-99-2	67
BENZO-g,h,i-PERYLENE	191-24-2	48
BENZO-k-FLUOROANTHENE	207-08-9	48
Bis(2-ETHYLEXYL)PHTHALATE	117-81-7	2,727
BUTYLBENZYLPHthalATE	85-68-7	3,499
CHRYSENE	218-01-9	100
4-CHLOROANILINE	106-47-8	<40
4-CHLORO-3-METHYLPHENOL	59-50-7	<40
2-CHLOROPHENOL	95-57-8	<40
DIBENZOFURAN	132-64-9	<40
DIBENZO-a,h-ANTHRACENE	53-70-3	<40
3,3-DICHLOROBENZIDINE	91-94-1	<40
2,4-DICHLOROPHENOL	102-83-2	<40
2,4-DINITROPHENOL	51-28-5	<40
2,6-DINITROTOLUENE	606-20-2	<40
DIETHYLPHthalATE	84-66-2	40
DIMETHYLPHthalATE	131-11-3	<40



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-SP-4 {1'-3'})
Date received: 7/23/01	Laboratory ID: 0117480
Date extracted: 7/23/01	Matrix: Soil
Date analyzed: 7/23/01	ELAP #: 11693

NYS TAGM SEMI-VOLATILES

Parameter	CAS No.	Results ug/kg
DI-n-BUTYLPHthalate	84-74-2	804
DI-n-OCTYLPHthalate	117-84-0	5,535
FLUORANTHENE	206-44-0	194
FLUORENE	86-73-7	217
HEXACHLOROBENZENE	118-74-1	<40
INDENO(1,2,3-c,d)PYRENE	193-39-5	44
ISOPHORONE	78-59-1	<40
2-METHYLNAPHTHALENE	91-57-6	804
2-METHYLPHENOL	95-48-7	<40
4-METHYLPHENOL	106-44-5	<40
NAPHTHALENE	91-20-3	299
NITROBENZENE	98-95-3	<40
2-NITROANILINE	88-74-4	<40
2-NITROPHENOL	88-75-5	<40
4-NITROPHENOL	100-02-7	<40
3-NITROANILINE	99-09-2	<40
PENTACHLORPHENOL	87-86-5	<40
PHENANTHRENE	85-01-8	1,029
PHENOL	108-95-1	<40
PYRENE	129-00-0	321
2,4,5-TRICHLOROPHENOL	95-95-4	<40

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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UJW-1)
Date received: 7/23/01	Laboratory ID: 0117481
Date extracted: 7/24/01	Matrix: Soil
Date analyzed: 7/24/01	ELAP #: 11693

NYS TAGM VOLATILES

Parameter	CAS No.	Results ug/kg
ACETONE	62-64-1	<50
BENZENE	71-43-2	<5
2-BUTANONE (MEK)	78-93-3	<10
CARBON DISULFIDE	75-15-0	<5
CARBON TETRACHLORIDE	58-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
DIBROMOCHLOROMETHANE	1868-53-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
ETHYLBENZENE	100-41-4	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
METHYLENE CHLORIDE	75-09-2	<5
4-METHYL-2-PENTANONE	108-10-1	<5
TETRACHLOROETHENE	127-18-4	10
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
TOLUENE	108-88-3	<5
TRICHLOROETHENE	79-01-6	12
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venaldi

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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-1)
Date received: 7/23/01	Laboratory ID: 0117481
Date extracted: 7/24/01	Matrix: Soil
Date analyzed: 7/24/01	ELAP #: 11693

NYS TAGM SEMI-VOLATILES

Parameter	CAS No.	Results ug/kg
ACENAPHTHENE	83-32-9	<300
ACENAPHTHYLENE	208-96-8	<300
ANILINE	65-53-3	<300
ANTHRACENE	120-12-7	<300
BENZO-a-ANTHRACENE	56-55-3	<300
BENZO-a-PYRENE	50-32-8	564
BENZO-b-FLUOROANTHENE	205-99-2	982
BENZO-g,h,i-PERYLENE	191-24-2	2,432
BENZO-k-FLUOROANTHENE	207-08-9	<300
Bis(2-ETHYLEXYL)PHTHALATE	117-81-7	17,238
BUTYLBENZYLPHTHALATE	85-68-7	692
CHRYSENE	218-01-9	449
4-CHLOROANILINE	106-47-8	<300
4-CHLORO-3-METHYLPHENOL	59-50-7	<300
2-CHLOROPHENOL	95-57-8	<300
DIBENZOFURAN	192-64-9	<300
DIBENZO-a,h-ANTHRACENE	53-70-3	<300
3,3-DICHLOROBENZIDINE	91-94-1	<300
2,4-DICHLOROPHENOL	102-83-2	<300
2,4-DINITROPHENOL	51-28-5	<300
2,6-DINITROTOLUENE	606-20-2	<300
DIETHYLPHTHALATE	84-66-2	<300
DIMETHYLPHTHALATE	131-11-3	<300

Note: MDL's are raised due to matrix interference.



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-1)
Date received: 7/23/01	Laboratory ID: 0117481
Date extracted: 7/24/01	Matrix: Soil
Date analyzed: 7/24/01	ELAP #: 11693

NYS TAGM SEMI-VOLATILES

Parameter	CAS No.	Results ug/kg
DI-n-BUTYLPHthalate	84-74-2	522
DI-n-OCTYLPHthalate	117-84-0	508
FLUORANTHENE	206-44-0	420
FLUORENE	86-73-7	<300
HEXACHLOROBENZENE	118-74-1	<300
INDENO(1,2,3-c,d)PYRENE	193-39-5	610
ISOPHORONE	78-59-1	<300
2-METHYLNAPHTHALENE	91-57-6	524
2-METHYLPHENOL	95-48-7	<300
4-METHYLPHENOL	106-44-5	<300
NAPHTHALENE	91-20-3	<300
NITROBENZENE	98-95-3	<300
2-NITROANILINE	88-74-4	<300
2-NITROPHENOL	88-75-5	<300
4-NITROPHENOL	100-02-7	<300
3-NITROANILINE	99-09-2	<300
PENTACHLOROPHENOL	87-86-5	<300
PHENANTHRENE	85-01-8	362
PHENOL	108-95-1	<300
PYRENE	129-00-0	544
2,4,5-TRICHLOROPHENOL	95-95-4	<300

Note: MDL's are raised due to matrix interference.

Michael Veraldi

Laboratory Director



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-1)
Date received: 7/23/01	Laboratory ID: 0117481
Date extracted: 7/25/01	Matrix: Soil
Date analyzed: 7/25/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	1.95
ARSENIC, As	6.60 mg/kg	22.2
BARIUM, Ba	3.33 mg/kg	120
CADMIUM, Cd	1.65 mg/kg	10.3
CHROMIUM, Cr	1.65 mg/kg	74.2
COPPER, Cu	1.65 mg/kg	1,795
IRON, Fe	1.65 mg/kg	104,452
MERCURY, Hg	0.020 mg/kg	0.22
MANGANESE, Mn	1.65 mg/kg	455
NICKEL, Ni	1.65 mg/kg	47.4
LEAD, Pb	1.65 mg/kg	415
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	11,575

Performed by SW-846 Method 6010

Michael Veraldi

Laboratory Director



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-2)
Date received: 7/23/01	Laboratory ID: 0117482
Date extracted: 7/24/01	Matrix: Soil
Date analyzed: 7/24/01	ELAP #: 11693

NYS TAGM VOLATILES

Parameter	CAS No.	Results ug/kg
ACETONE	62-64-1	<50
BENZENE	71-43-2	<5
2-BUTANONE (MEK)	78-93-3	<10
CARBON DISULFIDE	75-15-0	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
DIBROMOCHLOROMETHANE	1868-53-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
ETHYLBENZENE	100-41-4	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
METHYLENE CHLORIDE	75-09-2	<5
4-METHYL-2-PENTANONE	108-10-1	<5
TETRACHLOROETHENE	127-18-4	11
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROBENZENE	87-81-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
TOLUENE	108-88-3	<5
TRICHLOROETHENE	79-01-6	9
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venaldi

Laboratory Director



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-2)
Date received: 7/23/01	Laboratory ID: 0117482
Date extracted: 7/24/01	Matrix: Soil
Date analyzed: 7/24/01	ELAP #: 11693

NYS TAGM SEMI-VOLATILES

Parameter	CAS No.	Results ug/kg
ACENAPHTHENE	83-32-9	<333
ACENAPHTHYLENE	208-96-8	<333
ANILINE	65-53-3	<333
ANTHRACENE	120-12-7	<333
BENZO-a-ANTHRACENE	56-55-3	<333
BENZO-a-PYRENE	50-32-8	<333
BENZO-b-FLUOROANTHENE	205-99-2	<333
BENZO-g,h,i-PERYLENE	191-24-2	<333
BENZO-k-FLUOROANTHENE	207-08-9	<333
Bis(2-ETHYLEXYL)PHTHALATE	117-81-7	18,727
BUTYLBENZYLPHTHALATE	85-68-7	898
CHRYSENE	218-01-9	<333
4-CHLOROANILINE	106-47-8	<333
4-CHLORO-3-METHYLPHENOL	59-50-7	<333
2-CHLOROPHENOL	95-57-8	<333
DIBENZOFURAN	132-84-9	<333
DIBENZO-a,h-ANTHRACENE	53-70-3	<333
3,3-DICHLOROBENZIDINE	91-94-1	<333
2,4-DICHLOROPHENOL	102-83-2	<333
2,4-DINITROPHENOL	51-28-5	<333
2,6-DINITROTOLUENE	606-20-2	<333
DIETHYLPHTHALATE	84-66-2	<333
DIMETHYLPHTHALATE	131-11-3	<333

Note: MDL's are raised due to matrix interference.



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-2)
Date received: 7/23/01	Laboratory ID: 0117482
Date extracted: 7/24/01	Matrix: Soil
Date analyzed: 7/24/01	ELAP #: 11693

NYS TAGM SEMI-VOLATILES

Parameter	CAS No.	Results ug/kg
Di-n-BUTYLPHthalate	84-74-2	640
Di-n-OCTYLPHthalate	117-84-0	5,159
FLUORANTHENE	206-44-0	399
FLUORENE	86-73-7	<333
HEXACHLOROBENZENE	118-74-1	<333
INDENO(1,2,3-c,d)PYRENE	193-39-5	<333
ISOPHORONE	78-59-1	<333
2-METHYLNAPHTHALENE	91-57-6	790
2-METHYLPHENOL	95-48-7	<333
4-METHYLPHENOL	106-44-5	<333
NAPHTHALENE	91-20-3	395
NITROBENZENE	98-95-3	<333
2-NITROANILINE	88-74-4	<333
2-NITROPHENOL	88-75-5	<333
4-NITROPHENOL	100-02-7	<333
3-NITROANILINE	99-09-2	<333
PENTACHLOROPHENOL	87-86-5	<333
PHENANTHRENE	85-01-8	344
PHENOL	108-95-1	<333
PYRENE	129-00-0	433
2,4,5-TRICHLOROPHENOL	95-95-4	<333

Note: MDL's are raised due to matrix interference.

Michael Venezia

Laboratory Director



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-2)
Date received: 7/23/01	Laboratory ID: 0117482
Date extracted: 7/25/01	Matrix: Soil
Date analyzed: 7/25/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	1.77
ARSENIC, As	6.60 mg/kg	19.5
BARIUM, Ba	3.33 mg/kg	170
CADMIUM, Cd	1.65 mg/kg	10.3
CHROMIUM, Cr	1.65 mg/kg	83.5
COPPER, Cu	1.65 mg/kg	915
IRON, Fe	1.65 mg/kg	89,692
MERCURY, Hg	0.020 mg/kg	0.12
MANGANESE, Mn	1.65 mg/kg	418
NICKEL, Ni	1.65 mg/kg	46.0
LEAD, Pb	1.65 mg/kg	559
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	8,130

Performed by SW-846 Method 6010

Michael Veraldi

Laboratory Director



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-3)
Date received: 7/23/01	Laboratory ID: 0117483
Date extracted: 7/24/01	Matrix: Soil
Date analyzed: 7/24/01	ELAP #: 11693

NYS TAGM VOLATILES

Parameter	CAS No.	Results ug/kg
ACETONE	62-64-1	<50
BENZENE	71-43-2	<5
2-BUTANONE (MEK)	78-93-3	<10
CARBON DISULFIDE	75-15-0	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
DIBROMOCHLOROMETHANE	1868-53-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
ETHYLBENZENE	100-41-4	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
METHYLENE CHLORIDE	75-09-2	<5
4-METHYL-2-PENTANONE	108-10-1	<5
TETRACHLOROETHENE	127-18-4	12
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
TOLUENE	108-88-3	<5
TRICHLOROETHENE	79-01-6	8
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Veraldi

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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-3)
Date received: 7/23/01	Laboratory ID: 0117483
Date extracted: 7/23/01	Matrix: Soil
Date analyzed: 7/23/01	ELAP #: 11693

NYS TAGM SEMI-VOLATILES

Parameter	CAS No.	Results ug/kg
ACENAPHTHENE	83-32-9	<333
ACENAPHTHYLENE	208-96-8	<333
ANILINE	65-53-3	<333
ANTHRACENE	120-12-7	<333
BENZO-a-ANTHRACENE	56-55-3	<333
BENZO-a-PYRENE	50-32-8	<333
BENZO-b-FLUOROANTHENE	205-99-2	<333
BENZO-g,h,i-PERYLENE	191-24-2	1,193
BENZO-k-FLUOROANTHENE	207-08-9	<333
Bis(2-ETHYLEXYL)PHTHALATE	117-81-7	12,165
BUTYLBENZYLPHthalATE	85-68-7	583
CHRYSENE	218-01-9	<333
4-CHLOROANILINE	106-47-8	<333
4-CHLORO-3-METHYLPHENOL	59-50-7	<333
2-CHLOROPHENOL	95-57-8	<333
DIBENZOFURAN	132-84-9	<333
DIBENZO-a,h-ANTHRACENE	53-70-3	<333
3,3-DICHLOROBENZIDINE	91-94-1	<333
2,4-DICHLOROPHENOL	102-83-2	<333
2,4-DINITROPHENOL	51-28-5	<333
2,6-DINITROTOLUENE	606-20-2	<333
DIETHYLPHthalATE	84-66-2	<333
DIMETHYLPHthalATE	131-11-3	<333

Note: MDL's are raised due to matrix interference.



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-3)
Date received: 7/23/01	Laboratory ID: 0117483
Date extracted: 7/23/01	Matrix: Soil
Date analyzed: 7/23/01	ELAP #: 11693

NYS TAGM SEMI-VOLATILES

Parameter	CAS No.	Results ug/kg
DI-n-BUTYLPHthalate	84-74-2	608
DI-n-OCTYLPHthalate	117-84-0	<333
FLUORANTHENE	206-44-0	<333
FLUORENE	86-73-7	<333
HEXACHLOROBENZENE	118-74-1	<333
INDENO(1,2,3-c,d)PYRENE	193-39-5	380
ISOPHORONE	78-59-1	<333
2-METHYLNAPHTHALENE	91-57-6	<333
2-METHYLPHENOL	95-48-7	<333
4-METHYLPHENOL	106-44-5	<333
NAPHTHALENE	91-20-3	<333
NITROBENZENE	98-95-3	<333
2-NITROANILINE	88-74-4	<333
2-NITROPHENOL	88-75-5	<333
4-NITROPHENOL	100-02-7	<333
3-NITROANILINE	99-09-2	<333
PENTACHLOROPHENOL	87-86-5	<333
PHENANTHRENE	85-01-8	<333
PHENOL	108-95-1	<333
PYRENE	129-00-0	<333
2,4,5-TRICHLOROPHENOL	95-95-4	<333

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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-3)
Date received: 7/23/01	Laboratory ID: 0117483
Date extracted: 7/26/01	Matrix: Soil
Date analyzed: 7/26/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	4.32
ARSENIC, As	6.60 mg/kg	15.0
BARIUM, Ba	3.33 mg/kg	171
CADMIUM, Cd	1.65 mg/kg	18.1
CHROMIUM, Cr	1.65 mg/kg	77.2
COPPER, Cu	1.65 mg/kg	791
IRON, Fe	1.65 mg/kg	71,673
MERCURY, Hg	0.020 mg/kg	0.35
MANGANESE, Mn	1.65 mg/kg	465
NICKEL, Ni	1.65 mg/kg	55.0
LEAD, Pb	1.65 mg/kg	342
SELENIUM, Se	1.65 mg/kg	<1.65
ZINC, Zn	1.65 mg/kg	8,503

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Michael Versaldi

Laboratory Director



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-4)
Date received: 7/23/01	Laboratory ID: 0117484
Date extracted: 7/24/01	Matrix: Soil
Date analyzed: 7/24/01	ELAP #: 11693

NYS TAGM VOLATILES

Parameter	CAS No.	Results ug/kg
ACETONE	62-64-1	61
BENZENE	71-43-2	<5
2-BUTANONE (MEK)	78-93-3	<10
CARBON DISULFIDE	75-15-0	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
DIBROMOCHLOROMETHANE	1868-53-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
ETHYLBENZENE	100-41-4	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
METHYLENE CHLORIDE	75-09-2	<5
4-METHYL-2-PENTANONE	108-10-1	<5
TETRACHLOROETHENE	127-18-4	15
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
TOLUENE	108-88-3	<5
TRICHLOROETHENE	79-01-6	5
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENE	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Versall

Laboratory Director



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-4)
Date received: 7/23/01	Laboratory ID: 0117484
Date extracted: 7/23/01	Matrix: Soil
Date analyzed: 7/23/01	ELAP #: 11693

NYS TAGM SEMI-VOLATILES

Parameter	CAS No.	Results ug/kg
ACENAPHTHENE	83-32-9	4,589
ACENAPHTHYLENE	208-96-8	<200
ANILINE	65-53-3	<200
ANTHRACENE	120-12-7	396
BENZO-a-ANTHRACENE	56-55-3	393
BENZO-a-PYRENE	50-32-8	<200
BENZO-b-FLUOROANTHENE	205-99-2	<200
BENZO-g,h,i-PERYLENE	191-24-2	<200
BENZO-k-FLUOROANTHENE	207-08-9	<200
Bis(2-ETHYLEXYL)PHTHALATE	117-81-7	5,570
BUTYLBENZYLPHthalATE	85-68-7	493
CHRYSENE	218-01-9	859
4-CHLOROANILINE	108-47-8	<200
4-CHLORO-3-METHYLPHENOL	59-50-7	<200
2-CHLOROPHENOL	95-57-8	<200
DIBENZOFURAN	132-64-9	<200
DIBENZO-a,h-ANTHRACENE	53-70-3	<200
3,3-DICHLOROBENZIDINE	91-94-1	<200
2,4-DICHLOROPHENOL	102-83-2	<200
2,4-DINITROPHENOL	51-28-5	<200
2,6-DINITROTOLUENE	606-20-2	<200
DIETHYLPHthalATE	84-66-2	<200
DIMETHYLPHthalATE	131-11-3	<200

Note: MDL's are raised due to matrix interference.



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Date received: 7/23/01	Laboratory ID: 0117484
Date extracted: 7/23/01	Matrix: Soil
Date analyzed: 7/23/01	ELAP #: 11693

NYS TAGM SEMI-VOLATILES

Parameter	CAS No.	Results ug/kg
Di-n-BUTYLPHthalate	84-74-2	<200
Di-n-OCTYLPHthalate	117-84-0	768
FLUORANTHENE	206-44-0	1,216
FLUORENE	86-73-7	795
HEXACHLOROBENZENE	118-74-1	<200
INDENO(1,2,3-c,d)PYRENE	193-39-5	<200
ISOPHORONE	78-59-1	<200
2-METHYLNAPHTHALENE	91-57-6	561
2-METHYLPHENOL	95-48-7	<200
4-METHYLPHENOL	106-44-5	<200
NAPHTHALENE	91-20-3	308
NITROBENZENE	98-95-3	<200
2-NITROANILINE	88-74-4	<200
2-NITROPHENOL	88-75-5	<200
4-NITROPHENOL	100-02-7	<200
3-NITROANILINE	99-09-2	<200
PENTACHLORPHENOL	87-86-5	<200
PHENANTHRENE	85-01-8	4,682
PHENOL	108-95-1	<200
PYRENE	129-00-0	7,417
2,4,5-TRICHLOROPHENOL	95-95-4	<200

Note: MDL's are raised due to matrix interference.

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Laboratory Director



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Client: Impact	Client ID: 01-222A, Brooklyn (01-222A-UIW-4)
Date received: 7/23/01	Laboratory ID: 0117484
Date extracted: 7/25/01	Matrix: Soil
Date analyzed: 7/25/01	ELAP #: 11693

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
ARSENIC, As	6.60 mg/kg	12.9
BARIUM, Ba	3.33 mg/kg	106
CADMIUM, Cd	1.65 mg/kg	14.6
CHROMIUM, Cr	1.65 mg/kg	69.8
COPPER, Cu	1.65 mg/kg	482
IRON, Fe	1.65 mg/kg	63,090
MERCURY, Hg	0.020 mg/kg	0.39
MANGANESE, Mn	1.65 mg/kg	273
NICKEL, Ni	1.65 mg/kg	41.2
LEAD, Pb	1.65 mg/kg	190
SELENIUM, Se	1.65 mg/kg	30.4
ZINC, Zn	1.65 mg/kg	6,064

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Michael Verseth

Laboratory Director



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