FPM group — Engineering and Environmental Science

FPM Group, Ltd.
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July 30, 2013

Barry S. Cohen, Esq.
Certilman Balin Adler & Hyman, LLP
90 Merrick Avenue, 9th Floor
East Meadow, NY 11554

Re: **Subsurface Investigation Results**
118/120 and 130 Hope Street, and 138 Hope Street/429 Keap Street,
Brooklyn, New York
FPM File No. 1124g-13-01

Dear Barry:

On July 17 and 18, 2013 FPM Group (FPM) performed a limited subsurface investigation at the above-referenced property in accordance with the scope of work outlined in our July 11, 2013 proposal. The purpose of the investigation was to assess environmental conditions identified during a recent Phase I Environmental Site Assessment (ESA) of the property.

The subject property occupies three lots in the Borough of Brooklyn identified as Tax Map Block 2386, Lots 7, 12 and 14, and is developed with single-story slab-on-grade warehouses; the property totals 20,000 square feet. Partial basements are present beneath two of the warehouses. A dry cleaner is reported to have previously occupied Lot 7 (118/120 Hope Street) and a portion of the 118/120 Hope Street building is used as a metal shop. The subject property is Hazmat "e" designated (E-138) for "Underground Storage Tank Protocol" by the NYC Department of Planning. Vent pipes were visually observed above the roof of the buildings on Lot 14 (138 Hope Street/429 Keap Street) and Lot 7 (120 Hope Street); gasoline underground storage tanks (USTs) are shown on these lots on historic Sanborn maps.

The investigation procedures and results are described below together with our conclusions and recommendations. The sampling locations are shown on the attached site plan (Figure 1) and the results are summarized on the attached tables.

Sampling Procedures and Results

Soil Sampling

Eight soil borings (B-1 through B-8) were performed to assess soil conditions. The soil borings were located throughout the property, including in proximity to the estimated UST locations. At each location the soil was continuously sampled to a depth of between three and five feet below grade, as feasible using the hand auger technique. The soil was visually examined by an environmental professional and screened for organic vapors with a calibrated photoionization detector (PID).

The soils generally consisted of fine to medium-grained sand with silt and some clay. Historic fill, as evident by crushed concrete, brick, angular gravel, and porcelain (china) fragments, was noted in all of the borings except for B-6 and ranged in thickness from six inches to at least 3.5 feet. The fill was not fully penetrated at borings B-2, B-4, B-5, or B-7 and may be somewhat thicker at these locations. Boring B-4 may have terminated at the top of a UST. Boring logs documenting the soil observations are included in Attachment A.

No staining, odors, sheen, or other indications of potential impacts were observed in any of the borings, with the exceptions of boring B-4 near the north (front) side of 120 Hope Street near a suspect UST vent and boring B-1 located in the basement of 118 Hope Street. At boring B-1, dark brown soil with an associated slight odor and a PID response of 50 parts per million (ppm) was noted at a depth of 1 to 2 feet below grade. At boring B-4, dark brown soil with an associated petroleum odor and a PID response of 50 ppm was noted at a depth of 1.5 to 3 feet below grade. PID responses at all of the other borings and intervals ranged between 0 and 10 ppm.

In accordance with our proposal, soil samples from the intervals exhibiting the greatest potential for impact were retained and analyzed by a New York State Department of Health (NYSDOH)-certified laboratory for Target Compound List (TCL) volatile organic compounds (VOCs) and semivolatile compounds (SVOCs), polychlorinated biphenyls (PCBs), Target Analyte List (TAL) metals, and pesticides. The laboratory results are summarized in Table 1 and the laboratory report is included in Attachment B.

The soil sample results were compared to the 6 NYCRR Part 375-6 Soil Cleanup Objectives (Objectives). VOCs were detected in all of the samples, with the concentrations of acetone, benzene, cis-1,2-dichloroethylene (cis-1,2-DCE), methylene chloride, tetrachloroethene (PCE), toluene, trichloroethene (TCE), and/or xylenes in the samples from B-1, B-2, B-3, B-4, B-7 and B-8 exceeding the 6 NYCRR Part 375-6 Soil Cleanup Objectives for unrestricted use (Objectives). In particular, petroleum-related soil contamination was noted in borings B-1 and B-4 where visual indications of potential contamination were observed. SVOCs were detected in all samples, with several SVOCs exceeding the Objectives in the B-3, B-4, B-5, B-7, and B-8 samples. Metals were noted in all samples, with concentrations of arsenic, barium, chromium, copper, lead, mercury, nickel, and/or zinc exceeding the Objectives in all samples. Low levels of PCBs and/or one pesticide were detected in some of the samples, but none of these detections exceeds the Objectives.

These data confirm the presence of contaminated historic fill at all locations beneath the property. These data also indicate the presence of petroleum and chlorinated solvent-impacted soil at the property, which is consistent with the soil vapor results discussed below.

Soil Vapor Sampling

Four sub-slab soil vapor samples (SV-1 through SV-4) were collected from locations throughout the property using soil gas implants installed to a depth of approximately one foot below grade in accordance with NYSDOH protocol. The SV-1, SV-2, and SV-4 samples were collected from beneath the first floor slabs at 118, 120 and 138 Hope Street, respectively. The SV-3 sample was collected from beneath the basement slab at 130 Hope Street. The sampling locations are shown on the attached figure.

Following installation, each implant was purged of three to five gas volumes and then attached via polyethylene tubing to a laboratory-supplied Summa canister with a calibrated eight-hour flow controller. Sampling was conducted at a rate of less than 0.2 liters per minute and each canister was sealed while some vacuum remained present. Helium tracer testing was conducted to confirm that bypassing of the implant seals did not occur. Upon completion of sampling, the filled canisters were sealed and transmitted to the approved laboratory, as described above, and the samples were analyzed for VOCs using the TO-15 Method. Canister sampling forms documenting the soil vapor sampling procedures are included in Attachment A and the lab report is included in Attachment B.

The sample analytical results are summarized in Table 2. In accordance with NYSDOH protocol, the soil vapor sample results for the VOCs for which the NYSDOH provides guidance are evaluated using Matrix 1 and Matrix 2 of the October 2006 NYSDOH Soil Vapor Intrusion Guidance document. Our review of these data indicates the following:

- For the four VOCs detected for which the NYSDOH provides guidance, cis-1,2-DCE, PCE, TCE, and vinyl chloride (VC), the PCE detections beneath each building were at levels for which mitigation is indicated, the cis-1,2-DCE and VC levels beneath 120 Hope Street require mitigation, and the TCE levels beneath 118 and 120 Hope Street require mitigation; and

- Several other VOCs were also detected. The levels of several chlorinated compounds, several gasoline-related VOCs, hexane, heptanes, and other VOCs were significantly elevated relative to concentrations found within indoor air at commercial buildings. These detections suggest that subsurface VOC contamination is present, particularly beneath the 118 and 120 Hope Street buildings.

In summary, elevated levels of several VOCs are present at this property, including VOCs for which the NYSDEC guidance for soil vapor intrusion recommends mitigation. These data indicate that sources of these VOCs that will require remediation are present beneath the building (which is consistent with the soil data), and that mitigation for soil vapor intrusion will be required for this property.

Remediation Recommendations

Based on the analytical data and observations, and considering the requirements of the New York City Office of Environmental Remediation (OER) with respect to e-designated sites, FPM has the following recommendations for remediation of the property based on the currently-available data:

- Due to the property's e-designation, all remedial work must be conducted under a Remedial Action Plan (RAP) approved by the New York City Office of Environmental Remediation (OER). The RAP must be based on a Phase I ESA and a full Phase II investigation performed in accordance with a Phase II investigation work plan approved by OER. Therefore, it will be necessary to prepare a Phase II investigation work plan, conduct a full Phase II investigation, and prepare and submit a RAP for OER approval. Any additional environmental concerns identified during this investigation will be required to be addressed;

- The USTs identified on the Sanborn maps appear to remain present based on the observed vent piping and the absence of documentation of their removal. These USTs should be registered with the FDNY, properly removed and disposed by a licensed tank removal contractor, and the UST excavations should be assessed. All petroleum-impacted soil should be properly removed and disposed and any further remedial measures undertaken in accordance with the New York State Department of Environmental Conservation (NYSDEC) requirements for petroleum spills;

- Historic fill contaminated with VOCs, SVOCs and/or metals is present beneath all of the property. Soil contaminated with petroleum and chlorinated solvents is also present. Removal of contaminated soil during property redevelopment will be required to be performed under a Remedial Action Work Plan, with provisions for monitoring of the soil removal and disposal of the contaminated soil at approved facilities;

- Soil vapor containing several VOCs in excess of NYSDOH criteria is present beneath much of the property. Redevelopment of the property will require placement of a vapor barrier and construction and operation of a sub-slab depressurization system to protect building occupants from soil vapor intrusion. An investigation to delineate the sources of these contaminants will also be required; and

- All of the remedial work must be documented in a Remedial Closure Report, certified by a professional engineer, and submitted to and approved by OER such that a Notice of Satisfaction can be issued.

Should you have any questions, please do not hesitate to call me at (631) 737-6200, ext. 228.

Very truly yours,

Stephanie Davis/tac

Stephanie O. Davis
Senior Hydrogeologist
Department Manager

SOD:tac
Attachments

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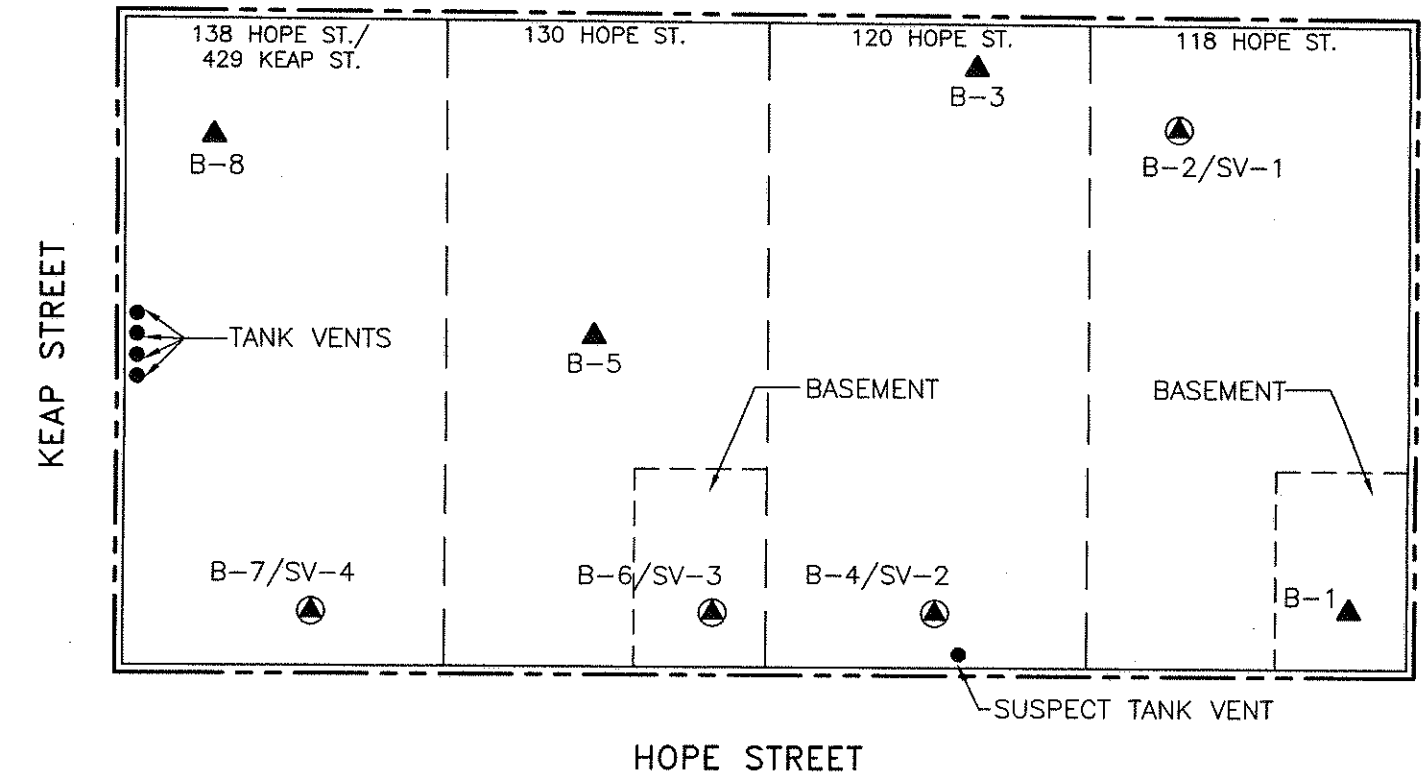

LEGEND:

▲ SOIL BORING LOCATION

SOIL BORING/SOIL VAPOR SAMPLING LOCATION

0' 30' 60'

APPROXIMATE SCALE

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FIGURE 1
SITE PLAN

118-138 HOPE STREET
BROOKLYN, NEY YORK

Drawn By: H.C.	Checked By: G.B.	Date: 7/18/13

H:\HOPE REALTY\A.dwg, 7/26/2013 9:28:05 AM, 8 1/2x11

TABLE 1
SOIL ANALYTICAL RESULTS
118, 120 AND 130 HOPE STREET AND 138 HOPE STREET/429 KEAP STREET
BROOKLYN, NEW YORK

Sample Location	118 Hope St		120 Hope St		130 Hope St.		138 Hope St/429 Keap St.		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives
Sample No.	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	
Sample Depth (feet)	1-2	1-2	1-3	1.5-3	1-2	1-2	1-2	1-2	
Sample Date	7/17/13	7/18/13			7/17/13				
TCL Volatile Organic Compounds in micrograms per kilogram									
1,2,4-Trimethylbenzene	ND	38 J	ND	810	ND	ND	ND	ND	3,600
1,2,4,5-Tetramethylbenzene	340	ND	ND	410 J	ND	ND	ND	ND	-
1,3,5-Trimethylbenzene	ND	80 J	ND	370 J	ND	ND	ND	ND	8,400
1,4-Diethylbenzene	200 J	20 J	33 J	420 J	ND	ND	ND	ND	-
4-Ethyltoluene	310	64 J	16 J	370 J	ND	ND	ND	ND	-
Acetone	ND	ND	**570 J**	**730 J**	ND	9.8	ND	ND	50
Benzene	**66**	**80**	ND	ND	ND	ND	ND	ND	60
cis-1,2-Dichloroethene	ND	ND	ND	**290**	ND	ND	ND	ND	250
Ethylbenzene	130	89	ND	120 J	ND	ND	ND	ND	1,000
Methylene Chloride	**490 J**	ND	ND	ND	ND	ND	**150 J**	**190 J**	50
Naphthalene	ND	ND	2,900	ND	ND	ND	ND	100 J	12,000
n-Butylbenzene	ND	ND	ND	170	ND	ND	ND	ND	12,000
n-Propylbenzene	ND	47 J	ND	120 J	ND	ND	ND	ND	3,900
p-Isopropyltoluene	ND	ND	50 J	ND	ND	ND	ND	ND	10,000
sec-Butylbenzene	150	ND	ND	ND	ND	ND	ND	ND	11,000
tert-Butylbenzene	57 J	ND	ND	ND	ND	ND	ND	ND	5,900
Tetrachloroethene	ND	ND	750	**4,500**	0.76 J	6.3	**1,500**	1,100	1,300
Toluene	270	180	60 J	**7,300**	ND	ND	ND	ND	700
Trichloroethene	ND	ND	ND	**780**	ND	ND	ND	ND	470
Xylenes	**710**	147 J	ND	**680 J**	ND	ND	ND	ND	260
TCL Semivolatile Organic Compounds in micrograms per kilogram									
2-Methylnaphthalene	ND	ND	6,700	ND	1,500 J	ND	370 J	ND	-
Acenaphthene	ND	ND	**34,000**	ND	8,000	ND	440 J	ND	20,000
Acenaphthylene	ND	ND	860 J	ND	980 J	ND	ND	ND	100,000
Anthracene	ND	ND	43,000	1,200	16,000	ND	820	210 J	100,000
Benzo[a]anthracene	89 J	39 J	**60,000**	**2,800**	**32,000**	52 J	**2,500**	780	1,000
Benzo[a]pyrene	80 J	ND	**58,000**	**2,600**	**26,000**	ND	**2,000**	670 J	1,000
Benzo[b]fluoranthene	97 J	56 J	**59,000**	**3,500**	**29,000**	66 J	**2,700**	960	1,000
Benzo[g,h,i]perylene	53 J	ND	30,000	2,500	12,000	ND	1,400	500 J	100,000
Benzo[k]fluoranthene	48 J	ND	**25,000**	**1,400**	**14,000**	ND	**1,100**	300 J	800
Biphenyl	ND	ND	2,000 J	ND	ND	ND	ND	ND	-
Bis(2-ethylhexyl) phthalate	ND	72 J	ND	5,300	ND	ND	ND	ND	-
Carbazole	ND	ND	16,000	ND	6,600	ND	570 J	ND	-
Chrysene	110 J	40 J	**63,000**	**2,900**	**34,000**	52 J	**2,700**	720	1,000
Dibenz(a,h)anthracene	ND	ND	**5,800**	**580 J**	**4,100**	ND	**560 J**	**360 J**	330
Dibenzofuran	ND	ND	16,000	ND	4,700	ND	370 J	ND	-
Fluoranthene	ND	60 J	**220,000 D**	6,300	69,000 D	87 J	6,600	1,400	100,000
Fluorene	ND	ND	21,000	ND	5,700	ND	420 J	ND	30,000
Indeno[1,2,3-cd]pyrene	ND	64 J	**28,000**	**2,100**	**13,000**	ND	**1,500**	**680 J**	500
Naphthalene	ND	ND	10,000	ND	2,400	ND	330 J	ND	12,000
Phenanthrene	120	ND	**250,000 D**	5,100	69,000 D	69 J	6,200	1,100	100,000
Pyrene	180	55 J	**190,000 D**	5,600	74,000	78 J	5,500	1,200	100,000
TAL Metals in milligrams per kilogram									
Aluminum	9,100	6,000	8,900	8,400	5,700	7,000	5,600	6,200	-
Antimony	1.4 J	3.4 J	0.86 J	2.3 J	1.7 J	ND	1.8 J	1.8 J	-
Arsenic	9.5	**190**	3.0	13	7.6	4.7	9.5	9.3	13
Barium	150	**370**	54	140	140	62	**430**	240	350
Beryllium	0.37 J	0.24 J	0.35 J	0.34 J	0.26 J	0.28 J	0.38 J	0.45	7.2
Cadmium	0.56 J	1.8	0.72 J	1.5	0.63 J	0.38 J	1.0	0.52 J	2.5
Calcium	17,000	16,000	4,000	1,200	20,000	4,500	10,000	11,000	-
Chromium	30	**44**	23	22	**61**	17	22	21	30
Cobalt	6.6	24	6.3	8	7.7	6.1	5.1	5.7	-
Copper	32	**360**	27	**200**	**96**	24	**68**	**83**	50
Iron	22,000	58,000	20,000	38,000	24,000	17,000	12,000	16,000	-
Lead	**550**	**370**	**100**	**860**	**400**	**170**	**540**	**790**	63
Magnesium	2,300	1,700	2,000	1,800	1,400	1,800	1,300	1,200	-
Manganese	350	850	320	200	470	320	260	210	1,600
Mercury	**2.6**	**0.67**	**0.30**	**2.1**	**4.6**	**0.51**	**2.5**	**3.0**	0.18
Nickel	17	**35**	15	**62**	13	12	15	13	30
Potassium	990	860	730	680	1,100	660	850	1,000	-
Selenium	0.27 J	0.52 J	0.43 J	0.76 J	0.79 J	ND	0.84 J	0.96 J	3.9
Silver	ND	0.23 J	ND	0.20 J	0.26 J	ND	0.35 J	1.0	2
Sodium	210	610	160 J	160 J	490	84 J	490	380	-
Vanadium	30	48	32	23	25	22	20	22	-
Zinc	77	61	83	**330**	**130**	50	**350**	**170**	109
Pesticides in micrograms per kilogram									
Endrin	ND	1.65 P	ND	ND	16.8 PI	1.24	2.87	ND	14
Polychlorinated Biphenyls in micrograms per kilogram									
Aroclor 1260	ND	ND	ND	15.6 J	ND	ND	ND	ND	100

Notes:

Only analytes detected in one or more samples are included herein.
J = Estimated concentration below the Reporting Limit but exceeding the Method Detection
P = The RPD between the results for two columns exceeds the method-specified criteria.
ND = Not detected at or above the method detection limit.

- = Not established
Bold Shaded values exceed NYSDEC Unrestricted Use Soil Cleanup Object
D = Results from diluted sample.
I = The lower value has been reported due to obvious interference.

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TABLE 2
SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
118, 120 AND 130 HOPE STREET AND 138 HOPE STREET/429 KEAP STREET
BROOKLYN, NEW YORK

Sample Location	118 Hope St.	120 Hope St.	130 Hope St.	138 Hope St./ 429 Keap St.	Indoor Air Background Levels, Commercial*
Sample No.	SV-1	SV-2	SV-3	SV-4	
Sample Date	7/18/13		7/17/13		
Volatile Organic Compounds in ug/m^3					
1,2-DICHLOROPROPANE	ND	ND	6.84	ND	<1.0 - <1.7
1,4-DICHLOROBENZENE	ND	97.4	80.6	ND	<0.8 - 12.5
ACETONE	1,040	801	20.9	58.2	32.4 - 120.2
BENZENE	415	ND	3.99	ND	2.1 - 12.5
CARBON DISULFIDE	63,200	25.2	4.48	ND	<0.8 - 6.4
CHLOROFORM	ND	ND	31.7	ND	<0.4 - 1.4
CIS-1,2-DICHLOROETHYLENE	ND	539	ND	ND	<0.8 - <2.0
CYCLOHEXANE	344	1,060	ND	ND	-
ETHYL ACETATE	ND	313	ND	ND	<1.0 - 9.5
ISOPROPANOL	ND	51.6	ND	ND	-
METHYL ETHYL KETONE (2-BUTANONE)	ND	162	3.54	ND	<1.6 - 7.6
N-HEPTANE	12,300	1,740	3.59	ND	-
N-HEXANE	35,100	1,600	7.40	18.5	1.6 - 15.2
PROPYLENE	1,880	107	11.8	13.1	-
TETRACHLOROETHYLENE(PCE)	5,200	17,200	1,450	3,070	<1.9 - 25.4
TOLUENE	573	1,700	8.97	ND	10.7 - 70.8
TRICHLOROETHYLENE (TCE)	623	2,770	4.84	ND	<1.2 - 6.5
VINYL CHLORIDE	ND	27.9	ND	ND	<0.8 - 2.2
XYLENES, m & p	ND	66.5	ND	ND	4.1 - 28.5

Notes:

All samples analyzed using Method TO-15.

Shaded compounds are those for which the NYSDOH has provided guidance.

Only compounds detected in one or more samples are reported herein. See lab report for complete data.

ug/m^3 = micrograms per cubic meter

ND = Not detected

* = US EPA BASE Study 2001

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ATTACHMENT A

BORING LOGS
CANISTER SAMPLING FORMS

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Ronkonkoma,NY

PROJECT NAME	Hope Keap			FPM JOB #	1124G-13-01
SITE ADDRESS	118 Hope Street				
BORING/WELL	B-1	TOTAL DEPTH	5'	DIAMETER	
TOC ELEVATION		WATER LEVEL INITIAL		STATIC	
SCREEN DIA.		LENGTH		SLOT SIZE	
CASING DIA.		LENGTH		TYPE	
DRILLING CO.	FPM		DRILLING METHOD	Hand Auger	
DRILLER	GH/JB	LOG BY	GH	DATE DRILLED	7/17/2013

SITE MAP

DEPTH (FT)	SAMPLE	OVA/PID (PPM)	WELL CONSTR.	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (INTERVAL, RECOVERY, COLOR, MATRIX TYPE, MOISTURE CONTENT, COMMENTS)
1		5.0	NA	FILL	0-4": Concrete slab 4"-1': Dark brown fine to med sand with angular gravel and brick. No odor.
2	1'-2'	50		SM	1-2': Dark brown silt and fine sand. Slight odor.
3		5.0		OH	2-5': Brown silt and clay. Very moist. No odor.
4		4.5			
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

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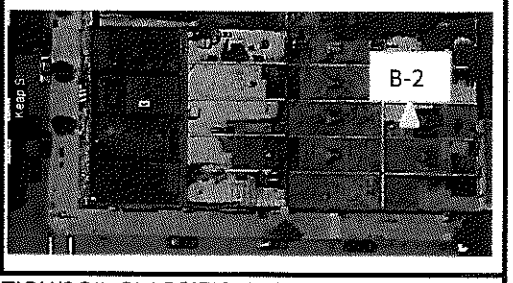
Ronkonkoma,NY

PROJECT NAME	Hope Keap			FPM JOB #	1124G-13-01
SITE ADDRESS	118 Hope Street				
BORING/WELL	B-2	TOTAL DEPTH	3'	DIAMETER	
TOC ELEVATION		WATER LEVEL INITIAL		STATIC	
SCREEN DIA.		LENGTH		SLOT SIZE	
CASING DIA.		LENGTH		TYPE	
DRILLING CO.	FPM		DRILLING METHOD	Hand Auger	
DRILLER	GH/BC	LOG BY	GH	DATE DRILLED	7/18/2013

SITE MAP



DEPTH (FT)	SAMPLE	OVA/PID (PPM)	WELL CONSTR.	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (INTERVAL, RECOVERY, COLOR, MATRIX TYPE, MOISTURE CONTENT, COMMENTS)
1		0.5	NA	Concrete	0-6": Concrete slab
2	1'-2'	0.3		FILL	6"-3': Dark brown fine to med sand with silt, angular gravel, and brick. No odor.
3		0.2			No recovery/Refusal at 3'bg
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

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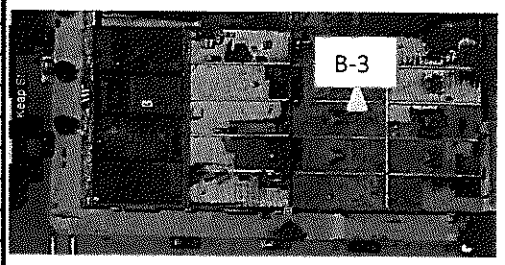
Ronkonkoma,NY

PROJECT NAME	Hope Keap			FPM JOB #	1124G-13-01
SITE ADDRESS	120 Hope Street				
BORING/WELL	B-3	TOTAL DEPTH	5'	DIAMETER	
TOC ELEVATION		WATER LEVEL INITIAL		STATIC	
SCREEN DIA.		LENGTH		SLOT SIZE	
CASING DIA.		LENGTH		TYPE	
DRILLING CO.	FPM		DRILLING METHOD	Hand Auger	
DRILLER	GH/BC	LOG BY	GH	DATE DRILLED	7/18/2013

SITE MAP



DEPTH (FT)	SAMPLE	OVA/PID (PPM)	WELL CONSTR.	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (INTERVAL, RECOVERY, COLOR, MATRIX TYPE, MOISTURE CONTENT, COMMENTS)
1		10	NA	Concrete	0-6": Concrete slab
2	1'-3'	10		FILL	6"-4': Dark brown fine to med sand with silt and ground concrete. No staining or odor.
3		10			
4				SM	4-5': Dark brown fine to med sand with silt with trace angular gravel. No staining or odor.
5		10			
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

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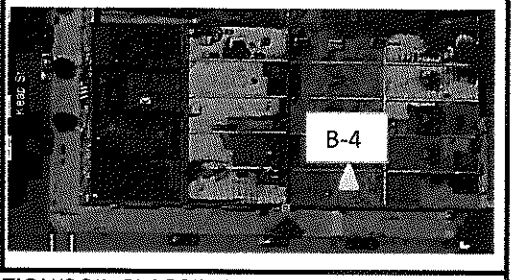
Ronkonkoma,NY

PROJECT NAME	Hope Keap			FPM JOB #	1124G-13-01
SITE ADDRESS	120 Hope Street				
BORING/WELL	B-4	TOTAL DEPTH	5'	DIAMETER	
TOC ELEVATION		WATER LEVEL INITIAL		STATIC	
SCREEN DIA.		LENGTH		SLOT SIZE	
CASING DIA.		LENGTH		TYPE	
DRILLING CO.	FPM		DRILLING METHOD	Hand Auger	
DRILLER	GH/BC	LOG BY	GH	DATE DRILLED	7/18/2013

SITE MAP

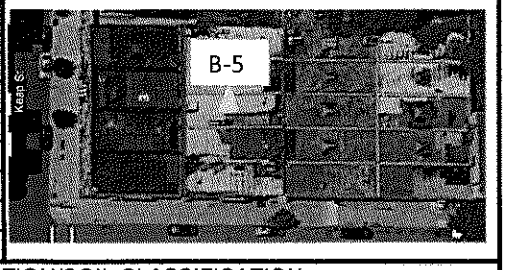


DEPTH (FT)	SAMPLE	OVA/PID (PPM)	WELL CONSTR.	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (INTERVAL, RECOVERY, COLOR, MATRIX TYPE, MOISTURE CONTENT, COMMENTS)
1		10	NA	Concrete	0-6": Concrete slab
2	1.5-3'	50		FILL	6"-1.5': Dark brown fine to med sand with silt. No odor. 1.5'-3': Dark brown sand and silt with ground concrete. Petroleum odor.
3					
4					Refusal at 3' bg, possible UST.
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

FPM GROUP
Ronkonkoma,NY

PROJECT NAME	Hope Keap			FPM JOB #	1124G-13-01
SITE ADDRESS	130 Hope Street				
BORING/WELL	B-5	TOTAL DEPTH	4'	DIAMETER	
TOC ELEVATION		WATER LEVEL INITIAL		STATIC	
SCREEN DIA.		LENGTH		SLOT SIZE	
CASING DIA.		LENGTH		TYPE	
DRILLING CO.	FPM		DRILLING METHOD	Hand Auger	
DRILLER	GH/JB	LOG BY	GH	DATE DRILLED	7/17/2013

SITE MAP



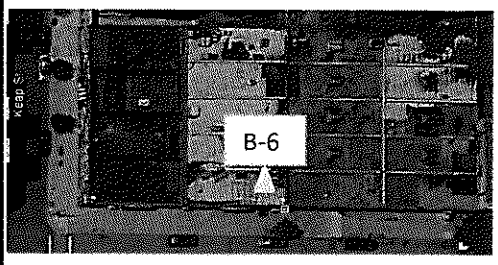
DEPTH (FT)	SAMPLE	OVA/PID (PPM)	WELL CONSTR.	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (INTERVAL, RECOVERY, COLOR, MATRIX TYPE, MOISTURE CONTENT, COMMENTS)
1		0	NA	Concrete	0-1': Concrete slab
2	1-2'	0		FILL	1'-4': Brown fine to med sand with angular gravel, brick, and crushed china. No odor or staining.
3					
4		0			Refusal at 4' bg, tight material, no recovery.
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

FPM GROUP

Ronkonkoma,NY

PROJECT NAME	Hope Keap			FPM JOB #	1124G-13-01
SITE ADDRESS	130 Hope Street				
BORING/WELL	B-6	TOTAL DEPTH	3'	DIAMETER	
TOC ELEVATION		WATER LEVEL INITIAL		STATIC	
SCREEN DIA.		LENGTH		SLOT SIZE	
CASING DIA.		LENGTH		TYPE	
DRILLING CO.	FPM		DRILLING METHOD	Hand Auger	
DRILLER	GH/JB	LOG BY	GH	DATE DRILLED	7/17/2013

SITE MAP

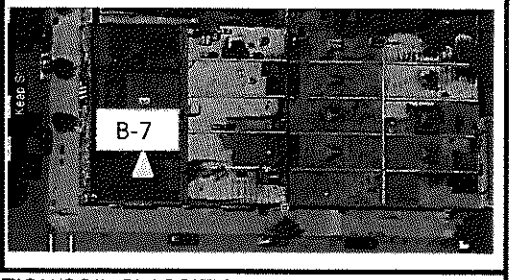


DEPTH (FT)	SAMPLE	OVA/PID (PPM)	WELL CONSTR.	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (INTERVAL, RECOVERY, COLOR, MATRIX TYPE, MOISTURE CONTENT, COMMENTS)
1		0	NA	Concrete	0-4": Concrete slab
	1-2'			SM	4"-2': Brown fine sand with silt. No odor or staining.
2		0			
				OH	2'-3': Brown silt with clay and trace fine sand. Moist. No odor or staining.
3		0			
					No recovery below 3 fbg.
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

FPM GROUP

Ronkonkoma,NY

SITE MAP



PROJECT NAME	Hope Keap			FPM JOB #	1124G-13-01
SITE ADDRESS	138 Hope Street				
BORING/WELL	B-7	TOTAL DEPTH	4'	DIAMETER	
TOC ELEVATION		WATER LEVEL INITIAL		STATIC	
SCREEN DIA.		LENGTH		SLOT SIZE	
CASING DIA.		LENGTH		TYPE	
DRILLING CO.	FPM			DRILLING METHOD	Hand Auger
DRILLER	GH/JB	LOG BY	GH	DATE DRILLED	7/17/2013

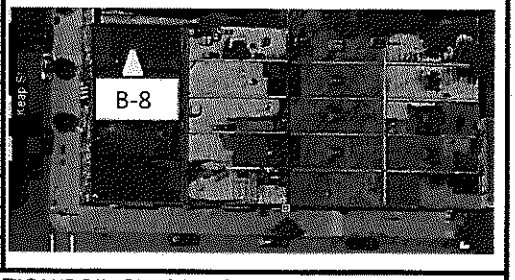
DEPTH (FT)	SAMPLE	OVA/PID (PPM)	WELL CONSTR.	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (INTERVAL, RECOVERY, COLOR, MATRIX TYPE, MOISTURE CONTENT, COMMENTS)
1			NA	Concrete	0-6": Concrete slab
2	1-2'	10			
3		9.8		FILL	6"-4': Dark brown fine to med sand with silt, angular gravel, and brick. No odor or staining.
4		9.6			
5					Refusal at 4'bg, tight material.
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

FPM GROUP

Ronkonkoma,NY

PROJECT NAME	Hope Keap			FPM JOB #	1124G-13-01
SITE ADDRESS	138 Hope Street				
BORING/WELL	B-8	TOTAL DEPTH	3'	DIAMETER	
TOC ELEVATION		WATER LEVEL INITIAL		STATIC	
SCREEN DIA.		LENGTH		SLOT SIZE	
CASING DIA.		LENGTH		TYPE	
DRILLING CO.	FPM		DRILLING METHOD	Hand Auger	
DRILLER	GH/JB	LOG BY	GH	DATE DRILLED	7/17/2013

SITE MAP



DEPTH (FT)	SAMPLE	OVA/PID (PPM)	WELL CONSTR.	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (INTERVAL, RECOVERY, COLOR, MATRIX TYPE, MOISTURE CONTENT, COMMENTS)
1			NA	Concrete	0-6": Concrete slab
	1-2'	0.9			6"-2': Brown fine sand with silt, angular gravel, brick, and china. No odor or staining.
2				FILL	
		0.2			2'-3': Brown silt with angular gravel, china, and brick. No odor or staining.
3					
		0			3'-4': Brown fine to medium sand with silt, angular gravel, china, and brick. No odor or staining.
4					
					Refusal at 4'bg, tight material.
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

CANISTER FIELD SAMPLING RECORD

Project: Hope Realty

Site Location: 118 Hope

Sample ID	SV-1	Canister ID	340
Sampler	BC/GH	Canister Volume	
Location	back of 118	Flow Controller ID	0161
Height		Flow Controller Setting	1 hr

Sample Type (sub-slab, soil gas, amb, indoor)

Reading	Date	Time	Vacuum
Initial Canister Vacuum	7/18/13	13:06	-28.50
Final Canister Vacuum	7/18/13	14:16	-6.35

Weather or Ambient Conditions: Sunny Humid 85°

Purge Data: purged 3-5 volumes

Helium Check Data: O.K.

Comments:

CANISTER FIELD SAMPLING RECORD

Project: Hope 17

Site Location: 120 Hope

Sample ID SV-2

Sampler BC/GH

Location Front 120

Height

Canister ID 478

Canister Volume

Flow Controller ID 0005

Flow Controller Setting NR

Sample Type (sub-slab, soil gas, amb, indoor)

Reading	Date	Time	Vacuum
Initial Canister Vacuum	7/18/13	10:49	-30.11
Final Canister Vacuum	7/18/13	12:04	-4.89

Weather or Ambient Conditions: Sunny Humid 80s

Purge Data: 3-5 Volumes

Helium Check Data: OK

Comments:

CANISTER FIELD SAMPLING RECORD

Project: Hope St

Site Location: 130 Hope St

Sample ID	SV-3	Canister ID	471
Sampler	JB/GH	Canister Volume	
Location	Basement of 130 Hope (B-6)	Flow Controller ID	0575
Height	-	Flow Controller Setting	1/2
Sample Type (~~sub-slab~~, soil gas, amb, indoor)			

Reading	Date	Time	Vacuum
Initial Canister Vacuum	7/17/13	12:22	-29.88
Final Canister Vacuum	7/17/13	13:41	-0.66

Weather or Ambient Conditions: Sunny 85°

Purge Data: Purge 3-5 Volumes

Helium Check Data: OK.

Comments:

CANISTER FIELD SAMPLING RECORD

Project: Hope St

Site Location: 138 Hope St

Sample ID SV-4

Sampler JB/GH

Location 138 Hope (front)

Height -

Sample Type (sub-slab), soil gas, amb, indoor)

Canister ID 190

Canister Volume

Flow Controller ID 0282

Flow Controller Setting 1 hr

Reading	Date	Time	Vacuum
Initial Canister Vacuum	7/17/13	13:05	-29.87
Final Canister Vacuum	7/17/13	14:17	-7.49

Weather or Ambient Conditions: Sunny 85°

Purge Data: Purge 3-5 Volumes

Helium Check Data: O.K.

Comments:

ATTACHMENT B

LABORATORY REPORTS

FPM

ANALYTICAL REPORT

Lab Number:	L1313731
Client:	FPM Group 909 Marconi Avenue Ronkonkoma, NY 11779
ATTN:	Ben Cancemi
Phone:	(631) 737-6200
Project Name:	HOPE ST.
Project Number:	1124G-13-01
Report Date:	07/29/13

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1313731-01	B-3 (1-3)	BROOKLYN, NY	07/18/13 09:00
L1313731-02	B-4 (1.5-3)	BROOKLYN, NY	07/18/13 10:30
L1313731-03	B-2 (1-2)	BROOKLYN, NY	07/18/13 13:00

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HOPE ST. **Lab Number:** L1313731
Project Number: 1124G-13-01 **Report Date:** 07/29/13

Case Narrative (continued)

Report Submission

This final report replaces the partial report issued July 26, 2013, and includes the results of all requested analyses.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1313731-02 has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L1313731-03: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

Metals

L1313731-01, -02, and -03 have elevated detection limits for all elements, with the exception of Mercury, due to the dilutions required by matrix interferences encountered during analysis.

The WG623850-4 MS recoveries, performed on L1313731-01, are above the acceptance criteria for Arsenic (187%), Copper (193%), Lead (132%), and Zinc (128%). A post digestion spike was performed with acceptable recoveries for Arsenic (94%), Copper (93%), Lead (85%), and Zinc (83%).

The WG623850-4 MS recoveries for Aluminum (618%), Calcium (258%), Iron (14600%), and Manganese (449%), performed on L1313731-01, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG623850-3 Laboratory Duplicate RPD, performed on L1313731-01, is outside the acceptance criteria for Calcium (56%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 07/29/13

ORGANICS

VOLATILES

Project Name: HOPE ST.
Project Number: 1124G-13-01
Lab Number: L1313731
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-01
Client ID: B-3 (1-3)
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/26/13 10:52
Analyst: BN
Percent Solids: 84%

Date Collected: 07/18/13 09:00
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	710	140	1
1,1-Dichloroethane	ND		ug/kg	110	13.	1
Chloroform	ND		ug/kg	110	26.	1
Carbon tetrachloride	ND		ug/kg	71	15.	1
1,2-Dichloropropane	ND		ug/kg	250	16.	1
Dibromochloromethane	ND		ug/kg	71	22.	1
1,1,2-Trichloroethane	ND		ug/kg	110	22.	1
Tetrachloroethene	750		ug/kg	71	10.	1
Chlorobenzene	ND		ug/kg	71	25.	1
Trichlorofluoromethane	ND		ug/kg	360	8.6	1
1,2-Dichloroethane	ND		ug/kg	71	10.	1
1,1,1-Trichloroethane	ND		ug/kg	71	7.9	1
Bromodichloromethane	ND		ug/kg	71	16.	1
trans-1,3-Dichloropropene	ND		ug/kg	71	8.6	1
cis-1,3-Dichloropropene	ND		ug/kg	71	9.0	1
1,1-Dichloropropene	ND		ug/kg	360	32.	1
Bromoform	ND		ug/kg	280	29.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	71	12.	1
Benzene	ND		ug/kg	71	8.4	1
Toluene	60	J	ug/kg	110	8.0	1
Ethylbenzene	ND		ug/kg	71	10.	1
Chloromethane	ND		ug/kg	360	56.	1
Bromomethane	ND		ug/kg	140	24.	1
Vinyl chloride	ND		ug/kg	140	10.	1
Chloroethane	ND		ug/kg	140	22.	1
1,1-Dichloroethene	ND		ug/kg	71	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	15.	1
Trichloroethene	ND		ug/kg	71	11.	1
1,2-Dichlorobenzene	ND		ug/kg	360	13.	1
1,3-Dichlorobenzene	ND		ug/kg	360	13.	1
1,4-Dichlorobenzene	ND		ug/kg	360	17.	1

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-01 Date Collected: 07/18/13 09:00

Client ID: B-3 (1-3) Date Received: 07/19/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	140	7.4	1
p/m-Xylene	ND		ug/kg	140	23.	1
o-Xylene	ND		ug/kg	140	19.	1
cis-1,2-Dichloroethene	ND		ug/kg	71	11.	1
Dibromomethane	ND		ug/kg	710	12.	1
Styrene	ND		ug/kg	140	22.	1
Dichlorodifluoromethane	ND		ug/kg	710	16.	1
Acetone	570	J	ug/kg	710	220	1
Carbon disulfide	ND		ug/kg	710	140	1
2-Butanone	ND		ug/kg	710	25.	1
Vinyl acetate	ND		ug/kg	710	34.	1
4-Methyl-2-pentanone	ND		ug/kg	710	17.	1
1,2,3-Trichloropropane	ND		ug/kg	710	16.	1
2-Hexanone	ND		ug/kg	710	13.	1
Bromochloromethane	ND		ug/kg	360	14.	1
2,2-Dichloropropane	ND		ug/kg	360	16.	1
1,2-Dibromoethane	ND		ug/kg	280	13.	1
1,3-Dichloropropane	ND		ug/kg	360	12.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	71	23.	1
Bromobenzene	ND		ug/kg	360	15.	1
n-Butylbenzene	ND		ug/kg	71	14.	1
sec-Butylbenzene	ND		ug/kg	71	15.	1
tert-Butylbenzene	ND		ug/kg	360	40.	1
o-Chlorotoluene	ND		ug/kg	360	11.	1
p-Chlorotoluene	ND		ug/kg	360	11.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	360	56.	1
Hexachlorobutadiene	ND		ug/kg	360	30.	1
Isopropylbenzene	ND		ug/kg	71	12.	1
p-Isopropyltoluene	50	J	ug/kg	71	14.	1
Naphthalene	2900		ug/kg	360	55.	1
Acrylonitrile	ND		ug/kg	710	17.	1
n-Propylbenzene	ND		ug/kg	71	8.9	1
1,2,3-Trichlorobenzene	ND		ug/kg	360	12.	1
1,2,4-Trichlorobenzene	ND		ug/kg	360	56.	1
1,3,5-Trimethylbenzene	ND		ug/kg	360	10.	1
1,2,4-Trimethylbenzene	ND		ug/kg	360	41.	1
1,4-Dioxane	ND		ug/kg	7100	1200	1
1,4-Diethylbenzene	33	J	ug/kg	280	11.	1
4-Ethyltoluene	16	J	ug/kg	280	8.3	1

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-01 Date Collected: 07/18/13 09:00

Client ID: B-3 (1-3) Date Received: 07/19/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	280	9.2	1
Ethyl ether	ND		ug/kg	360	19.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	360	32.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	90		70-130

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-02 D
Client ID: B-4 (1.5-3)
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/26/13 11:20
Analyst: BN
Percent Solids: 88%

Date Collected: 07/18/13 10:30
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1500	300	2.5
1,1-Dichloroethane	ND		ug/kg	220	27.	2.5
Chloroform	ND		ug/kg	220	56.	2.5
Carbon tetrachloride	ND		ug/kg	150	32.	2.5
1,2-Dichloropropane	ND		ug/kg	530	34.	2.5
Dibromochloromethane	ND		ug/kg	150	46.	2.5
1,1,2-Trichloroethane	ND		ug/kg	220	46.	2.5
Tetrachloroethene	4500		ug/kg	150	21.	2.5
Chlorobenzene	ND		ug/kg	150	52.	2.5
Trichlorofluoromethane	ND		ug/kg	750	18.	2.5
1,2-Dichloroethane	ND		ug/kg	150	22.	2.5
1,1,1-Trichloroethane	ND		ug/kg	150	17.	2.5
Bromodichloromethane	ND		ug/kg	150	34.	2.5
trans-1,3-Dichloropropene	ND		ug/kg	150	18.	2.5
cis-1,3-Dichloropropene	ND		ug/kg	150	19.	2.5
1,1-Dichloropropene	ND		ug/kg	750	68.	2.5
Bromoform	ND		ug/kg	600	62.	2.5
1,1,2,2-Tetrachloroethane	ND		ug/kg	150	26.	2.5
Benzene	ND		ug/kg	150	18.	2.5
Toluene	7300		ug/kg	220	17.	2.5
Ethylbenzene	120	J	ug/kg	150	22.	2.5
Chloromethane	ND		ug/kg	750	120	2.5
Bromomethane	ND		ug/kg	300	51.	2.5
Vinyl chloride	ND		ug/kg	300	21.	2.5
Chloroethane	ND		ug/kg	300	48.	2.5
1,1-Dichloroethene	ND		ug/kg	150	31.	2.5
trans-1,2-Dichloroethene	ND		ug/kg	220	32.	2.5
Trichloroethene	780		ug/kg	150	23.	2.5
1,2-Dichlorobenzene	ND		ug/kg	750	28.	2.5
1,3-Dichlorobenzene	ND		ug/kg	750	28.	2.5
1,4-Dichlorobenzene	ND		ug/kg	750	36.	2.5

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-02 D
Client ID: B-4 (1.5-3)
Sample Location: BROOKLYN, NY

Date Collected: 07/18/13 10:30
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	300	16.	2.5
p/m-Xylene	520		ug/kg	300	48.	2.5
o-Xylene	160	J	ug/kg	300	41.	2.5
cis-1,2-Dichloroethene	290		ug/kg	150	22.	2.5
Dibromomethane	ND		ug/kg	1500	25.	2.5
Styrene	ND		ug/kg	300	46.	2.5
Dichlorodifluoromethane	ND		ug/kg	1500	33.	2.5
Acetone	730	J	ug/kg	1500	470	2.5
Carbon disulfide	ND		ug/kg	1500	300	2.5
2-Butanone	ND		ug/kg	1500	53.	2.5
Vinyl acetate	ND		ug/kg	1500	72.	2.5
4-Methyl-2-pentanone	ND		ug/kg	1500	37.	2.5
1,2,3-Trichloropropane	ND		ug/kg	1500	34.	2.5
2-Hexanone	ND		ug/kg	1500	28.	2.5
Bromochloromethane	ND		ug/kg	750	30.	2.5
2,2-Dichloropropane	ND		ug/kg	750	34.	2.5
1,2-Dibromoethane	ND		ug/kg	600	27.	2.5
1,3-Dichloropropane	ND		ug/kg	750	26.	2.5
1,1,1,2-Tetrachloroethane	ND		ug/kg	150	48.	2.5
Bromobenzene	ND		ug/kg	750	31.	2.5
n-Butylbenzene	170		ug/kg	150	30.	2.5
sec-Butylbenzene	ND		ug/kg	150	31.	2.5
tert-Butylbenzene	ND		ug/kg	750	84.	2.5
o-Chlorotoluene	ND		ug/kg	750	24.	2.5
p-Chlorotoluene	ND		ug/kg	750	23.	2.5
1,2-Dibromo-3-chloropropane	ND		ug/kg	750	120	2.5
Hexachlorobutadiene	ND		ug/kg	750	64.	2.5
Isopropylbenzene	ND		ug/kg	150	25.	2.5
p-Isopropyltoluene	ND		ug/kg	150	29.	2.5
Naphthalene	ND		ug/kg	750	120	2.5
Acrylonitrile	ND		ug/kg	1500	36.	2.5
n-Propylbenzene	120	J	ug/kg	150	19.	2.5
1,2,3-Trichlorobenzene	ND		ug/kg	750	25.	2.5
1,2,4-Trichlorobenzene	ND		ug/kg	750	120	2.5
1,3,5-Trimethylbenzene	370	J	ug/kg	750	22.	2.5
1,2,4-Trimethylbenzene	810		ug/kg	750	86.	2.5
1,4-Dioxane	ND		ug/kg	15000	2600	2.5
1,4-Diethylbenzene	420	J	ug/kg	600	24.	2.5
4-Ethyltoluene	370	J	ug/kg	600	18.	2.5

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-02 D
Client ID: B-4 (1.5-3)
Sample Location: BROOKLYN, NY

Date Collected: 07/18/13 10:30
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4,5-Tetramethylbenzene	410	J	ug/kg	600	20.	2.5
Ethyl ether	ND		ug/kg	750	40.	2.5
trans-1,4-Dichloro-2-butene	ND		ug/kg	750	67.	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	93		70-130

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-03
Client ID: B-2 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/26/13 11:48
Analyst: BN
Percent Solids: 89%

Date Collected: 07/18/13 13:00
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	580	120	1
1,1-Dichloroethane	ND		ug/kg	87	10.	1
Chloroform	ND		ug/kg	87	22.	1
Carbon tetrachloride	ND		ug/kg	58	12.	1
1,2-Dichloropropane	ND		ug/kg	200	13.	1
Dibromochloromethane	ND		ug/kg	58	18.	1
1,1,2-Trichloroethane	ND		ug/kg	87	18.	1
Tetrachloroethene	240		ug/kg	58	8.2	1
Chlorobenzene	ND		ug/kg	58	20.	1
Trichlorofluoromethane	ND		ug/kg	290	7.1	1
1,2-Dichloroethane	ND		ug/kg	58	8.5	1
1,1,1-Trichloroethane	ND		ug/kg	58	6.5	1
Bromodichloromethane	ND		ug/kg	58	13.	1
trans-1,3-Dichloropropene	ND		ug/kg	58	7.0	1
cis-1,3-Dichloropropene	ND		ug/kg	58	7.4	1
1,1-Dichloropropene	ND		ug/kg	290	26.	1
Bromoform	ND		ug/kg	230	24.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	58	9.9	1
Benzene	80		ug/kg	58	6.9	1
Toluene	180		ug/kg	87	6.5	1
Ethylbenzene	89		ug/kg	58	8.6	1
Chloromethane	ND		ug/kg	290	46.	1
Bromomethane	ND		ug/kg	120	20.	1
Vinyl chloride	ND		ug/kg	120	8.2	1
Chloroethane	ND		ug/kg	120	18.	1
1,1-Dichloroethene	ND		ug/kg	58	12.	1
trans-1,2-Dichloroethene	ND		ug/kg	87	12.	1
Trichloroethene	ND		ug/kg	58	8.9	1
1,2-Dichlorobenzene	ND		ug/kg	290	11.	1
1,3-Dichlorobenzene	ND		ug/kg	290	11.	1
1,4-Dichlorobenzene	ND		ug/kg	290	14.	1

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-03 Date Collected: 07/18/13 13:00

Client ID: B-2 (1-2) Date Received: 07/19/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	120	6.1	1
p/m-Xylene	94	J	ug/kg	120	19.	1
o-Xylene	53	J	ug/kg	120	16.	1
cis-1,2-Dichloroethene	ND		ug/kg	58	8.7	1
Dibromomethane	ND		ug/kg	580	9.5	1
Styrene	ND		ug/kg	120	18.	1
Dichlorodifluoromethane	ND		ug/kg	580	13.	1
Acetone	ND		ug/kg	580	180	1
Carbon disulfide	ND		ug/kg	580	120	1
2-Butanone	ND		ug/kg	580	21.	1
Vinyl acetate	ND		ug/kg	580	28.	1
4-Methyl-2-pentanone	ND		ug/kg	580	14.	1
1,2,3-Trichloropropane	ND		ug/kg	580	13.	1
2-Hexanone	ND		ug/kg	580	11.	1
Bromochloromethane	ND		ug/kg	290	11.	1
2,2-Dichloropropane	ND		ug/kg	290	13.	1
1,2-Dibromoethane	ND		ug/kg	230	10.	1
1,3-Dichloropropane	ND		ug/kg	290	10.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	58	18.	1
Bromobenzene	ND		ug/kg	290	12.	1
n-Butylbenzene	ND		ug/kg	58	12.	1
sec-Butylbenzene	ND		ug/kg	58	12.	1
tert-Butylbenzene	ND		ug/kg	290	33.	1
o-Chlorotoluene	ND		ug/kg	290	9.3	1
p-Chlorotoluene	ND		ug/kg	290	9.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	290	46.	1
Hexachlorobutadiene	ND		ug/kg	290	25.	1
Isopropylbenzene	ND		ug/kg	58	9.8	1
p-Isopropyltoluene	ND		ug/kg	58	11.	1
Naphthalene	ND		ug/kg	290	45.	1
Acrylonitrile	ND		ug/kg	580	14.	1
n-Propylbenzene	47	J	ug/kg	58	7.3	1
1,2,3-Trichlorobenzene	ND		ug/kg	290	9.8	1
1,2,4-Trichlorobenzene	ND		ug/kg	290	46.	1
1,3,5-Trimethylbenzene	80	J	ug/kg	290	8.4	1
1,2,4-Trimethylbenzene	38	J	ug/kg	290	33.	1
1,4-Dioxane	ND		ug/kg	5800	1000	1
1,4-Diethylbenzene	20	J	ug/kg	230	9.3	1
4-Ethyltoluene	64	J	ug/kg	230	6.8	1

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-03 Date Collected: 07/18/13 13:00

Client ID: B-2 (1-2) Date Received: 07/19/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	230	7.6	1
Ethyl ether	ND		ug/kg	290	15.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	290	26.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	90		70-130

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/26/13 08:33
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG624555-3					
Methylene chloride	ND		ug/kg	500	100
1,1-Dichloroethane	ND		ug/kg	75	8.9
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	15.
2-Chloroethylvinyl ether	ND		ug/kg	1000	31.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	6.1
1,2-Dichloroethane	ND		ug/kg	50	7.3
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	11.
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	6.4
1,1-Dichloropropene	ND		ug/kg	250	23.
Bromoform	ND		ug/kg	200	21.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	8.5
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	5.6
Ethylbenzene	ND		ug/kg	50	7.4
Chloromethane	ND		ug/kg	250	39.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	7.1
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	10.
trans-1,2-Dichloroethene	ND		ug/kg	75	10.
Trichloroethene	ND		ug/kg	50	7.6
1,2-Dichlorobenzene	ND		ug/kg	250	9.2
1,3-Dichlorobenzene	ND		ug/kg	250	9.2

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/26/13 08:33
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG624555-3					
1,4-Dichlorobenzene	ND		ug/kg	250	12.
Methyl tert butyl ether	ND		ug/kg	100	5.2
p/m-Xylene	ND		ug/kg	100	16.
o-Xylene	ND		ug/kg	100	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.5
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	15.
Dichlorodifluoromethane	ND		ug/kg	500	11.
Acetone	ND		ug/kg	500	160
Carbon disulfide	ND		ug/kg	500	100
2-Butanone	ND		ug/kg	500	18.
Vinyl acetate	ND		ug/kg	500	24.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	11.
2-Hexanone	ND		ug/kg	500	9.4
Bromochloromethane	ND		ug/kg	250	9.8
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.9
1,3-Dichloropropane	ND		ug/kg	250	8.6
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	9.9
sec-Butylbenzene	ND		ug/kg	50	10.
tert-Butylbenzene	ND		ug/kg	250	28.
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	7.7
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	39.
Hexachlorobutadiene	ND		ug/kg	250	21.
Isopropylbenzene	ND		ug/kg	50	8.4
p-Isopropyltoluene	ND		ug/kg	50	9.6
Naphthalene	ND		ug/kg	250	38.

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/26/13 08:33
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG624555-3					
Acrylonitrile	ND		ug/kg	500	12.
Isopropyl Ether	ND		ug/kg	200	7.0
tert-Butyl Alcohol	ND		ug/kg	3000	45.
n-Propylbenzene	ND		ug/kg	50	6.3
1,2,3-Trichlorobenzene	ND		ug/kg	250	8.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	39.
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	29.
Methyl Acetate	ND		ug/kg	1000	38.
Ethyl Acetate	ND		ug/kg	1000	41.
Acrolein	ND		ug/kg	1200	460
Cyclohexane	ND		ug/kg	1000	54.
1,4-Dioxane	ND		ug/kg	5000	870
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	1000	14.
1,4-Diethylbenzene	ND		ug/kg	200	8.0
4-Ethyltoluene	ND		ug/kg	200	5.8
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Tetrahydrofuran	ND		ug/kg	1000	19.
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	22.
Methyl cyclohexane	ND		ug/kg	200	63.
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	21.
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	29.

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/26/13 08:33
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG624555-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG624555-1 WG624555-2								
Methylene chloride	90		90		70-130	0		30
1,1-Dichloroethane	90		88		70-130	2		30
Chloroform	90		89		70-130	1		30
Carbon tetrachloride	89		90		70-130	1		30
1,2-Dichloropropane	93		94		70-130	1		30
Dibromochloromethane	87		94		70-130	8		30
2-Chloroethylvinyl ether	124		123			1		30
1,1,2-Trichloroethane	91		94		70-130	3		30
Tetrachloroethene	93		87		70-130	7		30
Chlorobenzene	93		92		70-130	1		30
Trichlorofluoromethane	92		86		70-139	7		30
1,2-Dichloroethane	88		90		70-130	2		30
1,1,1-Trichloroethane	88		88		70-130	0		30
Bromodichloromethane	89		94		70-130	5		30
trans-1,3-Dichloropropene	88		94		70-130	7		30
cis-1,3-Dichloropropene	91		94		70-130	3		30
1,1-Dichloropropene	90		87		70-130	3		30
Bromoform	79		88		70-130	11		30
1,1,2,2-Tetrachloroethane	87		90		70-130	3		30
Benzene	90		89		70-130	1		30
Toluene	87		86		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG624555-1 WG624555-2								
Ethylbenzene	91		90		70-130	1		30
Chloromethane	93		82		52-130	13		30
Bromomethane	98		87		57-147	12		30
Vinyl chloride	87		82		67-130	6		30
Chloroethane	87		85		50-151	2		30
1,1-Dichloroethene	89		84		65-135	6		30
trans-1,2-Dichloroethene	90		86		70-130	5		30
Trichloroethene	91		88		70-130	3		30
1,2-Dichlorobenzene	91		92		70-130	1		30
1,3-Dichlorobenzene	93		92		70-130	1		30
1,4-Dichlorobenzene	92		92		70-130	0		30
Methyl tert butyl ether	87		89		66-130	2		30
p/m-Xylene	93		90		70-130	3		30
o-Xylene	93		91		70-130	2		30
cis-1,2-Dichloroethene	91		90		70-130	1		30
Dibromomethane	89		91		70-130	2		30
Styrene	92		92		70-130	0		30
Dichlorodifluoromethane	90		82		30-146	9		30
Acetone	**148**	Q	**147**	Q	54-140	1		30
Carbon disulfide	84		80		59-130	5		30
2-Butanone	121		122		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG624555-1 WG624555-2								
Vinyl acetate	88		93		70-130	6		30
4-Methyl-2-pentanone	90		96		70-130	6		30
1,2,3-Trichloropropane	87		90		68-130	3		30
2-Hexanone	102		103		70-130	1		30
Bromochloromethane	94		92		70-130	2		30
2,2-Dichloropropane	92		91		70-130	1		30
1,2-Dibromoethane	90		92		70-130	2		30
1,3-Dichloropropane	92		93		69-130	1		30
1,1,1,2-Tetrachloroethane	89		93		70-130	4		30
Bromobenzene	90		91		70-130	1		30
n-Butylbenzene	92		90		70-130	2		30
sec-Butylbenzene	92		89		70-130	3		30
tert-Butylbenzene	91		88		70-130	3		30
o-Chlorotoluene	91		90		70-130	1		30
p-Chlorotoluene	90		90		70-130	0		30
1,2-Dibromo-3-chloropropane	80		88		68-130	10		30
Hexachlorobutadiene	91		89		67-130	2		30
Isopropylbenzene	90		88		70-130	2		30
p-Isopropyltoluene	92		90		70-130	2		30
Naphthalene	88		91		70-130	3		30
Acrylonitrile	89		93		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG624555-1 WG624555-2								
Isopropyl Ether	92		93		66-130	1		30
tert-Butyl Alcohol	80		90		70-130	12		30
n-Propylbenzene	90		89		70-130	1		30
1,2,3-Trichlorobenzene	92		92		70-130	0		30
1,2,4-Trichlorobenzene	93		94		70-130	1		30
1,3,5-Trimethylbenzene	91		89		70-130	2		30
1,2,4-Trimethylbenzene	90		90		70-130	0		30
Methyl Acetate	89		93		51-146	4		30
Ethyl Acetate	88		91		70-130	3		30
Acrolein	81		82		70-130	1		30
Cyclohexane	97		90		59-142	7		30
1,4-Dioxane	86		88		65-136	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	96		90		50-139	6		30
1,4-Diethylbenzene	92		90		70-130	2		30
4-Ethyltoluene	91		90		70-130	1		30
1,2,4,5-Tetramethylbenzene	92		91		70-130	1		30
Tetrahydrofuran	87		88		66-130	1		30
Ethyl ether	85		84		67-130	1		30
trans-1,4-Dichloro-2-butene	83		89		70-130	7		30
Methyl cyclohexane	99		92		70-130	7		30
Ethyl-Tert-Butyl-Ether	94		95		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG624555-1 WG624555-2								
Tertiary-Amyl Methyl Ether	90		92		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		96		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	97		98		70-130

SEMIVOLATILES

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313731-01	D2	Date Collected:	07/18/13 09:00
Client ID:	B-3 (1-3)		Date Received:	07/19/13
Sample Location:	BROOKLYN, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	07/22/13 07:27
Analytical Date:	07/26/13 15:29			
Analyst:	JB			
Percent Solids:	84%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	220000		ug/kg	5800	1800	50
Phenanthrene	250000		ug/kg	5800	1900	50
Pyrene	190000		ug/kg	5800	1900	50

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313731-01	D	Date Collected:	07/18/13 09:00
Client ID:	B-3 (1-3)		Date Received:	07/19/13
Sample Location:	BROOKLYN, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	07/22/13 07:27
Analytical Date:	07/26/13 02:16			
Analyst:	JB			
Percent Solids:	84%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	34000		ug/kg	1600	400	10
1,2,4-Trichlorobenzene	ND		ug/kg	1900	640	10
Hexachlorobenzene	ND		ug/kg	1200	360	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	540	10
2-Chloronaphthalene	ND		ug/kg	1900	630	10
1,2-Dichlorobenzene	ND		ug/kg	1900	640	10
1,3-Dichlorobenzene	ND		ug/kg	1900	610	10
1,4-Dichlorobenzene	ND		ug/kg	1900	590	10
3,3'-Dichlorobenzidine	ND		ug/kg	1900	520	10
2,4-Dinitrotoluene	ND		ug/kg	1900	420	10
2,6-Dinitrotoluene	ND		ug/kg	1900	500	10
Fluoranthene	180000	E	ug/kg	1200	360	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1900	590	10
4-Bromophenyl phenyl ether	ND		ug/kg	1900	450	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2300	680	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2100	590	10
Hexachlorobutadiene	ND		ug/kg	1900	550	10
Hexachlorocyclopentadiene	ND		ug/kg	5600	1200	10
Hexachloroethane	ND		ug/kg	1600	350	10
Isophorone	ND		ug/kg	1700	520	10
Naphthalene	10000		ug/kg	1900	640	10
Nitrobenzene	ND		ug/kg	1700	460	10
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1600	410	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1900	580	10
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	1900	510	10
Butyl benzyl phthalate	ND		ug/kg	1900	380	10
Di-n-butylphthalate	ND		ug/kg	1900	370	10
Di-n-octylphthalate	ND		ug/kg	1900	480	10
Diethyl phthalate	ND		ug/kg	1900	410	10
Dimethyl phthalate	ND		ug/kg	1900	490	10
Benzo(a)anthracene	60000		ug/kg	1200	380	10

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-01 D
Client ID: B-3 (1-3)
Sample Location: BROOKLYN, NY

Date Collected: 07/18/13 09:00
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	58000		ug/kg	1600	470	10
Benzo(b)fluoranthene	59000		ug/kg	1200	390	10
Benzo(k)fluoranthene	25000		ug/kg	1200	370	10
Chrysene	63000		ug/kg	1200	380	10
Acenaphthylene	860	J	ug/kg	1600	360	10
Anthracene	43000		ug/kg	1200	320	10
Benzo(ghi)perylene	30000		ug/kg	1600	400	10
Fluorene	21000		ug/kg	1900	560	10
Phenanthrene	190000	E	ug/kg	1200	380	10
Dibenzo(a,h)anthracene	5800		ug/kg	1200	380	10
Indeno(1,2,3-cd)Pyrene	28000		ug/kg	1600	430	10
Pyrene	160000	E	ug/kg	1200	380	10
Biphenyl	2000	J	ug/kg	4400	640	10
4-Chloroaniline	ND		ug/kg	1900	510	10
2-Nitroaniline	ND		ug/kg	1900	550	10
3-Nitroaniline	ND		ug/kg	1900	540	10
4-Nitroaniline	ND		ug/kg	1900	520	10
Dibenzofuran	16000		ug/kg	1900	650	10
2-Methylnaphthalene	6700		ug/kg	2300	620	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1900	600	10
Acetophenone	ND		ug/kg	1900	600	10
2,4,6-Trichlorophenol	ND		ug/kg	1200	360	10
P-Chloro-M-Cresol	ND		ug/kg	1900	560	10
2-Chlorophenol	ND		ug/kg	1900	580	10
2,4-Dichlorophenol	ND		ug/kg	1700	630	10
2,4-Dimethylphenol	ND		ug/kg	1900	580	10
2-Nitrophenol	ND		ug/kg	4200	600	10
4-Nitrophenol	ND		ug/kg	2700	630	10
2,4-Dinitrophenol	ND		ug/kg	9300	2600	10
4,6-Dinitro-o-cresol	ND		ug/kg	5000	710	10
Pentachlorophenol	ND		ug/kg	1600	420	10
Phenol	ND		ug/kg	1900	570	10
2-Methylphenol	ND		ug/kg	1900	620	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2800	640	10
2,4,5-Trichlorophenol	ND		ug/kg	1900	630	10
Benzoic Acid	ND		ug/kg	6300	2000	10
Benzyl Alcohol	ND		ug/kg	1900	600	10
Carbazole	16000		ug/kg	1900	420	10

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-01 D
Client ID: B-3 (1-3)
Sample Location: BROOKLYN, NY

Date Collected: 07/18/13 09:00
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		25-120
Phenol-d6	29		10-120
Nitrobenzene-d5	**18**	Q	23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	77		0-136
4-Terphenyl-d14	77		18-120

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313731-02	D	Date Collected:	07/18/13 10:30
Client ID:	B-4 (1.5-3)		Date Received:	07/19/13
Sample Location:	BROOKLYN, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	07/26/13 10:31
Analytical Date:	07/29/13 14:10			
Analyst:	RC			
Percent Solids:	88%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	1500	380	10
1,2,4-Trichlorobenzene	ND		ug/kg	1800	600	10
Hexachlorobenzene	ND		ug/kg	1100	340	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	520	10
2-Chloronaphthalene	ND		ug/kg	1800	600	10
1,2-Dichlorobenzene	ND		ug/kg	1800	600	10
1,3-Dichlorobenzene	ND		ug/kg	1800	580	10
1,4-Dichlorobenzene	ND		ug/kg	1800	560	10
3,3'-Dichlorobenzidine	ND		ug/kg	1800	490	10
2,4-Dinitrotoluene	ND		ug/kg	1800	400	10
2,6-Dinitrotoluene	ND		ug/kg	1800	470	10
Fluoranthene	6300		ug/kg	1100	340	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1800	560	10
4-Bromophenyl phenyl ether	ND		ug/kg	1800	420	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	650	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	560	10
Hexachlorobutadiene	ND		ug/kg	1800	520	10
Hexachlorocyclopentadiene	ND		ug/kg	5300	1200	10
Hexachloroethane	ND		ug/kg	1500	340	10
Isophorone	ND		ug/kg	1700	490	10
Naphthalene	ND		ug/kg	1800	610	10
Nitrobenzene	ND		ug/kg	1700	440	10
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1500	390	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1800	550	10
Bis(2-Ethylhexyl)phthalate	5300		ug/kg	1800	480	10
Butyl benzyl phthalate	ND		ug/kg	1800	360	10
Di-n-butylphthalate	ND		ug/kg	1800	360	10
Di-n-octylphthalate	ND		ug/kg	1800	450	10
Diethyl phthalate	ND		ug/kg	1800	390	10
Dimethyl phthalate	ND		ug/kg	1800	470	10
Benzo(a)anthracene	2800		ug/kg	1100	360	10

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-02 D
Client ID: B-4 (1.5-3)
Sample Location: BROOKLYN, NY

Date Collected: 07/18/13 10:30
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	2600		ug/kg	1500	450	10
Benzo(b)fluoranthene	3500		ug/kg	1100	370	10
Benzo(k)fluoranthene	1400		ug/kg	1100	350	10
Chrysene	2900		ug/kg	1100	360	10
Acenaphthylene	590	J	ug/kg	1500	340	10
Anthracene	1200		ug/kg	1100	310	10
Benzo(ghi)perylene	2500		ug/kg	1500	380	10
Fluorene	ND		ug/kg	1800	530	10
Phenanthrene	5100		ug/kg	1100	360	10
Dibenzo(a,h)anthracene	580	J	ug/kg	1100	360	10
Indeno(1,2,3-cd)Pyrene	2100		ug/kg	1500	410	10
Pyrene	5600		ug/kg	1100	360	10
Biphenyl	ND		ug/kg	4200	610	10
4-Chloroaniline	ND		ug/kg	1800	490	10
2-Nitroaniline	ND		ug/kg	1800	520	10
3-Nitroaniline	ND		ug/kg	1800	510	10
4-Nitroaniline	ND		ug/kg	1800	500	10
Dibenzofuran	ND		ug/kg	1800	620	10
2-Methylnaphthalene	ND		ug/kg	2200	590	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1800	570	10
Acetophenone	ND		ug/kg	1800	570	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	350	10
P-Chloro-M-Cresol	ND		ug/kg	1800	530	10
2-Chlorophenol	ND		ug/kg	1800	560	10
2,4-Dichlorophenol	ND		ug/kg	1700	600	10
2,4-Dimethylphenol	ND		ug/kg	1800	550	10
2-Nitrophenol	ND		ug/kg	4000	580	10
4-Nitrophenol	ND		ug/kg	2600	600	10
2,4-Dinitrophenol	ND		ug/kg	8800	2500	10
4,6-Dinitro-o-cresol	ND		ug/kg	4800	680	10
Pentachlorophenol	ND		ug/kg	1500	390	10
Phenol	ND		ug/kg	1800	550	10
2-Methylphenol	ND		ug/kg	1800	590	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2600	600	10
2,4,5-Trichlorophenol	ND		ug/kg	1800	600	10
Benzoic Acid	ND		ug/kg	6000	1900	10
Benzyl Alcohol	ND		ug/kg	1800	570	10
Carbazole	ND		ug/kg	1800	400	10

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-02 D
Client ID: B-4 (1.5-3)
Sample Location: BROOKLYN, NY

Date Collected: 07/18/13 10:30
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	99		0-136
4-Terphenyl-d14	96		18-120

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313731-03	Date Collected:	07/18/13 13:00
Client ID:	B-2 (1-2)	Date Received:	07/19/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	07/22/13 07:27
Analytical Date:	07/26/13 03:12		
Analyst:	JB		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	61.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	52.	1
2-Chloronaphthalene	ND		ug/kg	190	61.	1
1,2-Dichlorobenzene	ND		ug/kg	190	61.	1
1,3-Dichlorobenzene	ND		ug/kg	190	59.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	40.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	60	J	ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	56.	1
Hexachlorobutadiene	ND		ug/kg	190	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	62.	1
Nitrobenzene	ND		ug/kg	170	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	72	J	ug/kg	190	49.	1
Butyl benzyl phthalate	ND		ug/kg	190	36.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	39.	1
Dimethyl phthalate	ND		ug/kg	190	47.	1
Benzo(a)anthracene	39	J	ug/kg	110	36.	1

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-03 Date Collected: 07/18/13 13:00

Client ID: B-2 (1-2) Date Received: 07/19/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	56	J	ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	40	J	ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	53.	1
Phenanthrene	ND		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	64	J	ug/kg	150	41.	1
Pyrene	55	J	ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	190	49.	1
2-Nitroaniline	ND		ug/kg	190	52.	1
3-Nitroaniline	ND		ug/kg	190	51.	1
4-Nitroaniline	ND		ug/kg	190	50.	1
Dibenzofuran	ND		ug/kg	190	62.	1
2-Methylnaphthalene	ND		ug/kg	220	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	190	54.	1
2-Chlorophenol	ND		ug/kg	190	56.	1
2,4-Dichlorophenol	ND		ug/kg	170	60.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	890	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	68.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	55.	1
2-Methylphenol	ND		ug/kg	190	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	61.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	60.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	40.	1

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-03 Date Collected: 07/18/13 13:00

Client ID: B-2 (1-2) Date Received: 07/19/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		25-120
Phenol-d6	40		10-120
Nitrobenzene-d5	38		23-120
2-Fluorobiphenyl	51		30-120
2,4,6-Tribromophenol	45		0-136
4-Terphenyl-d14	52		18-120

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/25/13 23:30
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 07/22/13 07:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG623188-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	98	30.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	98	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	98	32.

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/25/13 23:30
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 07/22/13 07:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG623188-1					
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.
Biphenyl	ND		ug/kg	370	54.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	350	51.
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	60.
Pentachlorophenol	ND		ug/kg	130	35.

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/25/13 23:30
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 07/22/13 07:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG623188-1					
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	87		0-136
4-Terphenyl-d14	86		18-120

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/27/13 16:24
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/26/13 10:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG624530-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	170	54.
Hexachlorobenzene	ND		ug/kg	100	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	170	54.
1,2-Dichlorobenzene	ND		ug/kg	170	54.
1,3-Dichlorobenzene	ND		ug/kg	170	52.
1,4-Dichlorobenzene	ND		ug/kg	170	50.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	36.
2,6-Dinitrotoluene	ND		ug/kg	170	42.
Fluoranthene	ND		ug/kg	100	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	50.
4-Bromophenyl phenyl ether	ND		ug/kg	170	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	170	47.
Hexachlorocyclopentadiene	ND		ug/kg	480	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	170	55.
Nitrobenzene	ND		ug/kg	150	40.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	170	43.
Butyl benzyl phthalate	ND		ug/kg	170	32.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	41.
Diethyl phthalate	ND		ug/kg	170	35.
Dimethyl phthalate	ND		ug/kg	170	42.
Benzo(a)anthracene	ND		ug/kg	100	32.

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/27/13 16:24
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/26/13 10:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG624530-1					
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	34.
Benzo(k)fluoranthene	ND		ug/kg	100	32.
Chrysene	ND		ug/kg	100	33.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	100	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	170	48.
Phenanthrene	ND		ug/kg	100	32.
Dibenzo(a,h)anthracene	ND		ug/kg	100	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	100	32.
Biphenyl	ND		ug/kg	380	55.
4-Chloroaniline	ND		ug/kg	170	44.
2-Nitroaniline	ND		ug/kg	170	47.
3-Nitroaniline	ND		ug/kg	170	46.
4-Nitroaniline	ND		ug/kg	170	45.
Dibenzofuran	ND		ug/kg	170	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	51.
Acetophenone	ND		ug/kg	170	51.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
P-Chloro-M-Cresol	ND		ug/kg	170	48.
2-Chlorophenol	ND		ug/kg	170	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	170	49.
2-Nitrophenol	ND		ug/kg	360	52.
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	800	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	61.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/27/13 16:24
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/26/13 10:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG624530-1					
Phenol	ND		ug/kg	170	49.
2-Methylphenol	ND		ug/kg	170	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	170	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	36.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	95		0-136
4-Terphenyl-d14	96		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG623188-2 WG623188-3								
Acenaphthene	68		85		31-137	22		50
1,2,4-Trichlorobenzene	63		80		38-107	24		50
Hexachlorobenzene	74		90		40-140	20		50
Bis(2-chloroethyl)ether	60		73		40-140	20		50
2-Chloronaphthalene	71		87		40-140	20		50
1,2-Dichlorobenzene	62		80		40-140	25		50
1,3-Dichlorobenzene	61		78		40-140	24		50
1,4-Dichlorobenzene	61		76		28-104	22		50
3,3'-Dichlorobenzidine	66		74		40-140	11		50
2,4-Dinitrotoluene	69		85		28-89	21		50
2,6-Dinitrotoluene	72		87		40-140	19		50
Fluoranthene	69		86		40-140	22		50
4-Chlorophenyl phenyl ether	71		86		40-140	19		50
4-Bromophenyl phenyl ether	71		85		40-140	18		50
Bis(2-chloroisopropyl)ether	61		78		40-140	24		50
Bis(2-chloroethoxy)methane	62		81		40-117	27		50
Hexachlorobutadiene	66		85		40-140	25		50
Hexachlorocyclopentadiene	**28**	Q	**38**	Q	40-140	30		50
Hexachloroethane	63		82		40-140	26		50
Isophorone	67		80		40-140	18		50
Naphthalene	62		80		40-140	25		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG623188-2 WG623188-3								
Nitrobenzene	62		79		40-140	24		50
NitrosoDiPhenylAmine(NDPA)/DPA	73		87			18		50
n-Nitrosodi-n-propylamine	65		80		32-121	21		50
Bis(2-Ethylhexyl)phthalate	90		102		40-140	13		50
Butyl benzyl phthalate	72		89		40-140	21		50
Di-n-butylphthalate	80		98		40-140	20		50
Di-n-octylphthalate	89		106		40-140	17		50
Diethyl phthalate	77		92		40-140	18		50
Dimethyl phthalate	74		89		40-140	18		50
Benzo(a)anthracene	75		90		40-140	18		50
Benzo(a)pyrene	72		90		40-140	22		50
Benzo(b)fluoranthene	70		85		40-140	19		50
Benzo(k)fluoranthene	74		92		40-140	22		50
Chrysene	77		90		40-140	16		50
Acenaphthylene	70		84		40-140	18		50
Anthracene	75		92		40-140	20		50
Benzo(ghi)perylene	66		80		40-140	19		50
Fluorene	70		84		40-140	18		50
Phenanthrene	73		91		40-140	22		50
Dibenzo(a,h)anthracene	61		75		40-140	21		50
Indeno(1,2,3-cd)Pyrene	61		74		40-140	19		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG623188-2 WG623188-3								
Pyrene	69		84		35-142	20		50
Biphenyl	72		88			20		50
4-Chloroaniline	57		76		40-140	29		50
2-Nitroaniline	74		90		47-134	20		50
3-Nitroaniline	54		61		26-129	12		50
4-Nitroaniline	65		79		41-125	19		50
Dibenzofuran	70		86		40-140	21		50
2-Methylnaphthalene	66		80		40-140	19		50
1,2,4,5-Tetrachlorobenzene	66		83		40-117	23		50
Acetophenone	66		86		14-144	26		50
2,4,6-Trichlorophenol	69		83		30-130	18		50
P-Chloro-M-Cresol	71		85		26-103	18		50
2-Chlorophenol	62		81		25-102	27		50
2,4-Dichlorophenol	67		84		30-130	23		50
2,4-Dimethylphenol	69		83		30-130	18		50
2-Nitrophenol	52		67		30-130	25		50
4-Nitrophenol	46		59		11-114	25		50
2,4-Dinitrophenol	11		16		4-130	37		50
4,6-Dinitro-o-cresol	16		21		10-130	27		50
Pentachlorophenol	62		78		17-109	23		50
Phenol	60		78		26-90	26		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG623188-2 WG623188-3								
2-Methylphenol	62		79		30-130.	24		50
3-Methylphenol/4-Methylphenol	63		85		30-130	30		50
2,4,5-Trichlorophenol	73		90		30-130	21		50
Benzoic Acid	15		20			29		50
Benzyl Alcohol	65		80		40-140	21		50
Carbazole	73		90		54-128	21		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		77		25-120
Phenol-d6	60		73		10-120
Nitrobenzene-d5	65		77		23-120
2-Fluorobiphenyl	70		81		30-120
2,4,6-Tribromophenol	88		104		0-136
4-Terphenyl-d14	68		81		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG624530-2 WG624530-3								
Acenaphthene	89		96		31-137	8		50
1,2,4-Trichlorobenzene	80		87		38-107	8		50
Hexachlorobenzene	104		105		40-140	1		50
Bis(2-chloroethyl)ether	71		84		40-140	17		50
2-Chloronaphthalene	92		95		40-140	3		50
1,2-Dichlorobenzene	77		86		40-140	11		50
1,3-Dichlorobenzene	74		83		40-140	11		50
1,4-Dichlorobenzene	74		86		28-104	15		50
3,3'-Dichlorobenzidine	81		81		40-140	0		50
2,4-Dinitrotoluene	**114**	Q	**117**	Q	28-89	3		50
2,6-Dinitrotoluene	103		106		40-140	3		50
Fluoranthene	109		111		40-140	2		50
4-Chlorophenyl phenyl ether	100		105		40-140	5		50
4-Bromophenyl phenyl ether	105		108		40-140	3		50
Bis(2-chloroisopropyl)ether	63		74		40-140	16		50
Bis(2-chloroethoxy)methane	77		91		40-117	17		50
Hexachlorobutadiene	81		90		40-140	11		50
Hexachlorocyclopentadiene	82		92		40-140	11		50
Hexachloroethane	76		88		40-140	15		50
Isophorone	81		95		40-140	16		50
Naphthalene	80		86		40-140	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG624530-2 WG624530-3								
Nitrobenzene	76		87		40-140	13		50
NitrosoDiPhenylAmine(NDPA)/DPA	107		109			2		50
n-Nitrosodi-n-propylamine	80		94		32-121	16		50
Bis(2-Ethylhexyl)phthalate	116		128		40-140	10		50
Butyl benzyl phthalate	124		124		40-140	0		50
Di-n-butylphthalate	118		124		40-140	5		50
Di-n-octylphthalate	121		133		40-140	9		50
Diethyl phthalate	111		113		40-140	2		50
Dimethyl phthalate	106		110		40-140	4		50
Benzo(a)anthracene	105		116		40-140	10		50
Benzo(a)pyrene	105		116		40-140	10		50
Benzo(b)fluoranthene	104		115		40-140	10		50
Benzo(k)fluoranthene	100		115		40-140	14		50
Chrysene	98		109		40-140	11		50
Acenaphthylene	95		98		40-140	3		50
Anthracene	107		115		40-140	7		50
Benzo(ghi)perylene	107		110		40-140	3		50
Fluorene	99		103		40-140	4		50
Phenanthrene	102		109		40-140	7		50
Dibenzo(a,h)anthracene	107		114		40-140	6		50
Indeno(1,2,3-cd)Pyrene	108		114		40-140	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG624530-2 WG624530-3								
Pyrene	110		112		35-142	2		50
Biphenyl	85		95			11		50
4-Chloroaniline	52		42		40-140	21		50
2-Nitroaniline	99		100		47-134	1		50
3-Nitroaniline	77		60		26-129	25		50
4-Nitroaniline	112		104		41-125	7		50
Dibenzofuran	96		101		40-140	5		50
2-Methylnaphthalene	86		90		40-140	5		50
1,2,4,5-Tetrachlorobenzene	82		91		40-117	10		50
Acetophenone	86		101		14-144	16		50
2,4,6-Trichlorophenol	98		104		30-130	6		50
P-Chloro-M-Cresol	**110**	Q	**112**	Q	26-103	2		50
2-Chlorophenol	82		100		25-102	20		50
2,4-Dichlorophenol	99		107		30-130	8		50
2,4-Dimethylphenol	96		109		30-130	13		50
2-Nitrophenol	83		100		30-130	19		50
4-Nitrophenol	114		**118**	Q	11-114	3		50
2,4-Dinitrophenol	80		85		4-130	6		50
4,6-Dinitro-o-cresol	94		95		10-130	1		50
Pentachlorophenol	96		108		17-109	12		50
Phenol	79		**94**	Q	26-90	17		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG624530-2 WG624530-3								
2-Methylphenol	85		104		30-130.	20		50
3-Methylphenol/4-Methylphenol	89		104		30-130	16		50
2,4,5-Trichlorophenol	111		112		30-130	1		50
Benzoic Acid	55		62			12		50
Benzyl Alcohol	82		101		40-140	21		50
Carbazole	111		116		54-128	4		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	80		96		25-120
Phenol-d6	82		100		10-120
Nitrobenzene-d5	82		93		23-120
2-Fluorobiphenyl	93		96		30-120
2,4,6-Tribromophenol	112		122		0-136
4-Terphenyl-d14	110		109		18-120

PCBS

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313731-01	Date Collected:	07/18/13 09:00
Client ID:	B-3 (1-3)	Date Received:	07/19/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	07/20/13 11:53
Analytical Date:	07/21/13 21:53	Cleanup Method1:	EPA 3665A
Analyst:	TQ	Cleanup Date1:	07/21/13
Percent Solids:	84%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.9	7.48	1
Aroclor 1221	ND		ug/kg	37.9	11.4	1
Aroclor 1232	ND		ug/kg	37.9	8.04	1
Aroclor 1242	ND		ug/kg	37.9	7.19	1
Aroclor 1248	ND		ug/kg	37.9	4.58	1
Aroclor 1254	ND		ug/kg	37.9	5.97	1
Aroclor 1260	ND		ug/kg	37.9	6.57	1
Aroclor 1262	ND		ug/kg	37.9	2.80	1
Aroclor 1268	ND		ug/kg	37.9	5.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	44		30-150
Decachlorobiphenyl	50		30-150
2,4,5,6-Tetrachloro-m-xylene	43		30-150
Decachlorobiphenyl	43		30-150

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313731-02	Date Collected:	07/18/13 10:30
Client ID:	B-4 (1.5-3)	Date Received:	07/19/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	07/20/13 11:53
Analytical Date:	07/21/13 22:06	Cleanup Method1:	EPA 3665A
Analyst:	TQ	Cleanup Date1:	07/21/13
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.0	7.12	1
Aroclor 1221	ND		ug/kg	36.0	10.9	1
Aroclor 1232	ND		ug/kg	36.0	7.66	1
Aroclor 1242	ND		ug/kg	36.0	6.84	1
Aroclor 1248	ND		ug/kg	36.0	4.36	1
Aroclor 1254	ND		ug/kg	36.0	5.68	1
Aroclor 1262	ND		ug/kg	36.0	2.66	1
Aroclor 1268	ND		ug/kg	36.0	5.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	40		30-150
Decachlorobiphenyl	40		30-150
2,4,5,6-Tetrachloro-m-xylene	39		30-150
Decachlorobiphenyl	36		30-150

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313731-02	Date Collected:	07/18/13 10:30
Client ID:	B-4 (1.5-3)	Date Received:	07/19/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	07/20/13 11:53
Analytical Date:	07/21/13 22:06	Cleanup Method1:	EPA 3665A
Analyst:	TQ	Cleanup Date1:	07/21/13
Percent Solids:	88%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1260	15.6	J	ug/kg	36.0	6.25	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	40		30-150
Decachlorobiphenyl	40		30-150
2,4,5,6-Tetrachloro-m-xylene	39		30-150
Decachlorobiphenyl	36		30-150

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313731-03	Date Collected:	07/18/13 13:00
Client ID:	B-2 (1-2)	Date Received:	07/19/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	07/20/13 11:53
Analytical Date:	07/21/13 22:20	Cleanup Method1:	EPA 3665A
Analyst:	TQ	Cleanup Date1:	07/21/13
Percent Solids:	89%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/21/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	35.3	6.96	1
Aroclor 1221	ND		ug/kg	35.3	10.6	1
Aroclor 1232	ND		ug/kg	35.3	7.49	1
Aroclor 1242	ND		ug/kg	35.3	6.69	1
Aroclor 1248	ND		ug/kg	35.3	4.27	1
Aroclor 1254	ND		ug/kg	35.3	5.56	1
Aroclor 1260	ND		ug/kg	35.3	6.12	1
Aroclor 1262	ND		ug/kg	35.3	2.61	1
Aroclor 1268	ND		ug/kg	35.3	5.12	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	52		30-150
Decachlorobiphenyl	48		30-150
2,4,5,6-Tetrachloro-m-xylene	53		30-150
Decachlorobiphenyl	47		30-150

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/21/13 22:33
Analyst: TQ

Extraction Method: EPA 3546
Extraction Date: 07/20/13 11:53
Cleanup Method1: EPA 3665A
Cleanup Date1: 07/21/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 07/21/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG623110-1					
Aroclor 1016	ND		ug/kg	16.5	3.25
Aroclor 1221	ND		ug/kg	16.5	4.97
Aroclor 1232	ND		ug/kg	16.5	3.50
Aroclor 1242	ND		ug/kg	16.5	3.13
Aroclor 1248	ND		ug/kg	16.5	1.99
Aroclor 1254	ND		ug/kg	16.5	2.60
Aroclor 1260	ND		ug/kg	16.5	2.86
Aroclor 1262	ND		ug/kg	16.5	1.22
Aroclor 1268	ND		ug/kg	16.5	2.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	67		30-150
Decachlorobiphenyl	59		30-150
2,4,5,6-Tetrachloro-m-xylene	66		30-150
Decachlorobiphenyl	57		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG623110-2 WG623110-3								
Aroclor 1016	58		66		40-140	13		50
Aroclor 1260	52		61		40-140	16		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	58		65		30-150
Decachlorobiphenyl	54		63		30-150
2,4,5,6-Tetrachloro-m-xylene	57		64		30-150
Decachlorobiphenyl	51		59		30-150

PESTICIDES

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313731-01	Date Collected:	07/18/13 09:00
Client ID:	B-3 (1-3)	Date Received:	07/19/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	07/20/13 11:49
Analytical Date:	07/22/13 12:53	Cleanup Method1:	EPA 3620B
Analyst:	BW	Cleanup Date1:	07/21/13
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.88	0.369	1
Lindane	ND		ug/kg	0.786	0.351	1
Alpha-BHC	ND		ug/kg	0.786	0.223	1
Beta-BHC	ND		ug/kg	1.88	0.715	1
Heptachlor	ND		ug/kg	0.943	0.423	1
Aldrin	ND		ug/kg	1.88	0.664	1
Heptachlor epoxide	ND		ug/kg	3.54	1.06	1
Endrin	ND		ug/kg	0.786	0.322	1
Endrin ketone	ND		ug/kg	1.88	0.485	1
Dieldrin	ND		ug/kg	1.18	0.589	1
4,4'-DDE	ND		ug/kg	1.88	0.436	1
4,4'-DDD	ND		ug/kg	1.88	0.672	1
4,4'-DDT	ND		ug/kg	3.54	1.52	1
Endosulfan I	ND		ug/kg	1.88	0.445	1
Endosulfan II	ND		ug/kg	1.88	0.630	1
Endosulfan sulfate	ND		ug/kg	0.786	0.359	1
Methoxychlor	ND		ug/kg	3.54	1.10	1
Toxaphene	ND		ug/kg	35.4	9.90	1
cis-Chlordane	ND		ug/kg	2.36	0.657	1
trans-Chlordane	ND		ug/kg	2.36	0.622	1
Chlordane	ND		ug/kg	15.3	6.24	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	37		30-150	B
Decachlorobiphenyl	**176**	Q	30-150	B

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313731-02	Date Collected:	07/18/13 10:30
Client ID:	B-4 (1.5-3)	Date Received:	07/19/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	07/20/13 11:49
Analytical Date:	07/22/13 13:05	Cleanup Method1:	EPA 3620B
Analyst:	BW	Cleanup Date1:	07/21/13
Percent Solids:	88%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.76	0.345	1
Lindane	ND		ug/kg	0.734	0.328	1
Alpha-BHC	ND		ug/kg	0.734	0.208	1
Beta-BHC	ND		ug/kg	1.76	0.668	1
Heptachlor	ND		ug/kg	0.881	0.395	1
Aldrin	ND		ug/kg	1.76	0.620	1
Heptachlor epoxide	ND		ug/kg	3.30	0.991	1
Endrin	ND		ug/kg	0.734	0.301	1
Endrin ketone	ND		ug/kg	1.76	0.454	1
Dieldrin	ND		ug/kg	1.10	0.551	1
4,4'-DDE	ND		ug/kg	1.76	0.408	1
4,4'-DDD	ND		ug/kg	1.76	0.628	1
4,4'-DDT	ND		ug/kg	3.30	1.42	1
Endosulfan I	ND		ug/kg	1.76	0.416	1
Endosulfan II	ND		ug/kg	1.76	0.589	1
Endosulfan sulfate	ND		ug/kg	0.734	0.336	1
Methoxychlor	ND		ug/kg	3.30	1.03	1
Toxaphene	ND		ug/kg	33.0	9.25	1
cis-Chlordane	ND		ug/kg	2.20	0.614	1
trans-Chlordane	ND		ug/kg	2.20	0.582	1
Chlordane	ND		ug/kg	14.3	5.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	**239**	Q	30-150	B

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313731-03	Date Collected:	07/18/13 13:00
Client ID:	B-2 (1-2)	Date Received:	07/19/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	07/20/13 11:49
Analytical Date:	07/22/13 11:36	Cleanup Method1:	EPA 3620B
Analyst:	BW	Cleanup Date1:	07/21/13
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.76	0.345	1
Lindane	ND		ug/kg	0.734	0.328	1
Alpha-BHC	ND		ug/kg	0.734	0.208	1
Beta-BHC	ND		ug/kg	1.76	0.668	1
Heptachlor	ND		ug/kg	0.880	0.395	1
Aldrin	ND		ug/kg	1.76	0.620	1
Heptachlor epoxide	ND		ug/kg	3.30	0.990	1
Endrin ketone	ND		ug/kg	1.76	0.453	1
Dieldrin	ND		ug/kg	1.10	0.550	1
4,4'-DDE	ND		ug/kg	1.76	0.407	1
4,4'-DDD	ND		ug/kg	1.76	0.628	1
4,4'-DDT	ND		ug/kg	3.30	1.42	1
Endosulfan I	ND		ug/kg	1.76	0.416	1
Endosulfan II	ND		ug/kg	1.76	0.588	1
Endosulfan sulfate	ND		ug/kg	0.734	0.335	1
Methoxychlor	ND		ug/kg	3.30	1.03	1
Toxaphene	ND		ug/kg	33.0	9.24	1
cis-Chlordane	ND		ug/kg	2.20	0.613	1
trans-Chlordane	ND		ug/kg	2.20	0.581	1
Chlordane	ND		ug/kg	14.3	5.83	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313731-03	Date Collected:	07/18/13 13:00
Client ID:	B-2 (1-2)	Date Received:	07/19/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	07/20/13 11:49
Analytical Date:	07/22/13 11:36	Cleanup Method1:	EPA 3620B
Analyst:	BW	Cleanup Date1:	07/21/13
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Endrin	1.65	P	ug/kg	0.734	0.301	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/22/13 12:01
Analyst: BW

Extraction Method: EPA 3546
Extraction Date: 07/20/13 11:49
Cleanup Method1: EPA 3620B
Cleanup Date1: 07/21/13

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG623109-1					
Delta-BHC	ND		ug/kg	1.53	0.300
Lindane	ND		ug/kg	0.638	0.285
Alpha-BHC	ND		ug/kg	0.638	0.181
Beta-BHC	ND		ug/kg	1.53	0.581
Heptachlor	ND		ug/kg	0.766	0.344
Aldrin	ND		ug/kg	1.53	0.540
Heptachlor epoxide	ND		ug/kg	2.87	0.862
Endrin	ND		ug/kg	0.638	0.262
Endrin ketone	ND		ug/kg	1.53	0.395
Dieldrin	ND		ug/kg	0.958	0.479
4,4'-DDE	ND		ug/kg	1.53	0.354
4,4'-DDD	ND		ug/kg	1.53	0.547
4,4'-DDT	ND		ug/kg	2.87	1.23
Endosulfan I	ND		ug/kg	1.53	0.362
Endosulfan II	ND		ug/kg	1.53	0.512
Endosulfan sulfate	ND		ug/kg	0.638	0.292
Methoxychlor	ND		ug/kg	2.87	0.894
Toxaphene	ND		ug/kg	28.7	8.04
cis-Chlordane	ND		ug/kg	1.92	0.534
trans-Chlordane	ND		ug/kg	1.92	0.506
Chlordane	ND		ug/kg	12.4	5.08

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	85		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG623109-2 WG623109-3								
Delta-BHC	76		80		30-150	5		30
Lindane	78		82		30-150	5		30
Alpha-BHC	79		83		30-150	5		30
Beta-BHC	78		81		30-150	4		30
Heptachlor	76		80		30-150	5		30
Aldrin	84		89		30-150	6		30
Heptachlor epoxide	81		87		30-150	7		30
Endrin	96		104		30-150	8		30
Endrin ketone	79		82		30-150	4		30
Dieldrin	87		94		30-150	8		30
4,4'-DDE	77		82		30-150	6		30
4,4'-DDD	82		88		30-150	7		30
4,4'-DDT	81		86		30-150	6		30
Endosulfan I	84		92		30-150	9		30
Endosulfan II	82		89		30-150	8		30
Endosulfan sulfate	78		82		30-150	5		30
Methoxychlor	66		72		30-150	9		30
cis-Chlordane	79		84		30-150	6		30
trans-Chlordane	76		81		30-150	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG623109-2 WG623109-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		82		30-150	A
Decachlorobiphenyl	99		112		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		59		30-150	B
Decachlorobiphenyl	89		101		30-150	B

METALS

Project Name: HOPE ST.
Project Number: 1124G-13-01
Lab Number: L1313731
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-01
Client ID: B-3 (1-3)
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 84%

Date Collected: 07/18/13 09:00
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	8900		mg/kg	9.3	1.8	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Antimony, Total	0.86	J	mg/kg	4.6	0.74	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Arsenic, Total	3.0		mg/kg	0.93	0.18	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Barium, Total	54		mg/kg	0.93	0.28	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Beryllium, Total	0.35	J	mg/kg	0.46	0.09	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Cadmium, Total	0.72	J	mg/kg	0.93	0.07	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Calcium, Total	4000		mg/kg	9.3	2.8	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Chromium, Total	23		mg/kg	0.93	0.18	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Cobalt, Total	6.3		mg/kg	1.8	0.46	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Copper, Total	27		mg/kg	0.93	0.18	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Iron, Total	20000		mg/kg	4.6	1.8	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Lead, Total	100		mg/kg	4.6	0.18	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Magnesium, Total	2000		mg/kg	9.3	0.93	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Manganese, Total	320		mg/kg	0.93	0.18	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Mercury, Total	0.30		mg/kg	0.09	0.02	1	07/26/13 08:10	07/26/13 10:53	EPA 7471B	1,7471B	MC
Nickel, Total	15		mg/kg	2.3	0.37	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Potassium, Total	730		mg/kg	230	37.	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Selenium, Total	0.43	J	mg/kg	1.8	0.28	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.93	0.18	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Sodium, Total	160	J	mg/kg	180	28.	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.37	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Vanadium, Total	32		mg/kg	0.93	0.09	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG
Zinc, Total	83		mg/kg	4.6	0.65	2	07/24/13 10:52	07/25/13 09:53	EPA 3050B	1,6010C	MG

Project Name: HOPE ST.
Project Number: 1124G-13-01
Lab Number: L1313731
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-02
Client ID: B-4 (1.5-3)
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 88%

Date Collected: 07/18/13 10:30
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	8400		mg/kg	8.5	1.7	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Antimony, Total	2.3	J	mg/kg	4.2	0.68	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Arsenic, Total	13		mg/kg	0.85	0.17	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Barium, Total	140		mg/kg	0.85	0.25	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Beryllium, Total	0.34	J	mg/kg	0.42	0.09	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Cadmium, Total	1.5		mg/kg	0.85	0.06	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Calcium, Total	1200		mg/kg	8.5	2.5	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Chromium, Total	22		mg/kg	0.85	0.17	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Cobalt, Total	8.4		mg/kg	1.7	0.42	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Copper, Total	200		mg/kg	0.85	0.17	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Iron, Total	38000		mg/kg	4.2	1.7	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Lead, Total	860		mg/kg	4.2	0.17	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Magnesium, Total	1800		mg/kg	8.5	0.85	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Manganese, Total	200		mg/kg	0.85	0.17	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Mercury, Total	2.1		mg/kg	0.09	0.02	1	07/26/13 08:10	07/26/13 10:59	EPA 7471B	1,7471B	MC
Nickel, Total	62		mg/kg	2.1	0.34	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Potassium, Total	680		mg/kg	210	34.	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Selenium, Total	0.76	J	mg/kg	1.7	0.25	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Silver, Total	0.20	J	mg/kg	0.85	0.17	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Sodium, Total	160	J	mg/kg	170	25.	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.34	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Vanadium, Total	23		mg/kg	0.85	0.09	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG
Zinc, Total	330		mg/kg	4.2	0.59	2	07/24/13 10:52	07/25/13 10:32	EPA 3050B	1,6010C	MG

Project Name: HOPE ST.
Project Number: 1124G-13-01
Lab Number: L1313731
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-03
Client ID: B-2 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 89%

Date Collected: 07/18/13 13:00
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6000		mg/kg	8.7	1.7	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Antimony, Total	3.4	J	mg/kg	4.4	0.70	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Arsenic, Total	190		mg/kg	0.87	0.17	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Barium, Total	370		mg/kg	0.87	0.26	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Beryllium, Total	0.24	J	mg/kg	0.44	0.09	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Cadmium, Total	1.8		mg/kg	0.87	0.06	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Calcium, Total	16000		mg/kg	8.7	2.6	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Chromium, Total	44		mg/kg	0.87	0.17	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Cobalt, Total	24		mg/kg	1.7	0.44	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Copper, Total	360		mg/kg	0.87	0.17	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Iron, Total	58000		mg/kg	4.4	1.7	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Lead, Total	370		mg/kg	4.4	0.17	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Magnesium, Total	1700		mg/kg	8.7	0.87	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Manganese, Total	850		mg/kg	0.87	0.17	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Mercury, Total	0.67		mg/kg	0.07	0.02	1	07/26/13 08:10	07/26/13 11:01	EPA 7471B	1,7471B	MC
Nickel, Total	35		mg/kg	2.2	0.35	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Potassium, Total	860		mg/kg	220	35.	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Selenium, Total	0.52	J	mg/kg	1.7	0.26	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Silver, Total	0.23	J	mg/kg	0.87	0.17	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Sodium, Total	610		mg/kg	170	26.	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.35	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Vanadium, Total	48		mg/kg	0.87	0.09	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG
Zinc, Total	61		mg/kg	4.4	0.61	2	07/24/13 10:52	07/25/13 10:35	EPA 3050B	1,6010C	MG

Project Name: HOPE ST. **Lab Number:** L1313731

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG623850-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Antimony, Total	ND		mg/kg	2.0	0.32	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Arsenic, Total	ND		mg/kg	0.40	0.08	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Barium, Total	ND		mg/kg	0.40	0.12	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Beryllium, Total	ND		mg/kg	0.20	0.04	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.40	0.03	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Calcium, Total	ND		mg/kg	4.0	1.2	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Chromium, Total	ND		mg/kg	0.40	0.08	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Cobalt, Total	ND		mg/kg	0.80	0.20	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Copper, Total	ND		mg/kg	0.40	0.08	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Iron, Total	ND		mg/kg	2.0	0.80	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Lead, Total	ND		mg/kg	2.0	0.08	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Magnesium, Total	ND		mg/kg	4.0	0.40	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Manganese, Total	ND		mg/kg	0.40	0.08	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Nickel, Total	ND		mg/kg	1.0	0.16	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Potassium, Total	ND		mg/kg	100	16.	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Selenium, Total	ND		mg/kg	0.80	0.12	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Silver, Total	ND		mg/kg	0.40	0.08	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Sodium, Total	ND		mg/kg	80	12.	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Thallium, Total	ND		mg/kg	0.80	0.16	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Vanadium, Total	ND		mg/kg	0.40	0.04	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG
Zinc, Total	ND		mg/kg	2.0	0.28	1	07/24/13 10:52	07/25/13 09:46	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG624190-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/26/13 08:10	07/26/13 10:21	1,7471B	MC

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG623850-2 SRM Lot Number: 0518-10-02								
Aluminum, Total	92		-		29-171	-		
Antimony, Total	117		-		4-196	-		
Arsenic, Total	100		-		81-119	-		
Barium, Total	96		-		83-118	-		
Beryllium, Total	104		-		83-117	-		
Cadmium, Total	94		-		82-117	-		
Calcium, Total	89		-		83-117	-		
Chromium, Total	101		-		80-119	-		
Cobalt, Total	100		-		83-117	-		
Copper, Total	101		-		83-117	-		
Iron, Total	94		-		51-150	-		
Lead, Total	96		-		80-120	-		
Magnesium, Total	97		-		74-126	-		
Manganese, Total	92		-		83-117	-		
Nickel, Total	104		-		82-117	-		
Potassium, Total	99		-		74-126	-		
Selenium, Total	102		-		80-120	-		
Silver, Total	102		-		66-134	-		
Sodium, Total	95		-		74-127	-		
Thallium, Total	101		-		79-120	-		
Vanadium, Total	98		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313731

Report Date: 07/29/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG623850-2 SRM Lot Number: 0518-10-02					
Zinc, Total	91	-	82-119	-	
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG624190-2 SRM Lot Number: 0518-10-02					
Mercury, Total	130	-	67-133	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG623850-4 QC Sample: L1313731-01 Client ID: B-3 (1-3)												
Aluminum, Total	8900	178	10000	**618**	Q	-	-		75-125	-		35
Antimony, Total	0.86J	44.5	41	92		-	-		75-125	-		35
Arsenic, Total	3.0	10.7	23	**187**	Q	-	-		75-125	-		35
Barium, Total	54.	178	230	99		-	-		75-125	-		35
Beryllium, Total	0.35J	4.45	4.6	103		-	-		75-125	-		35
Cadmium, Total	0.72J	4.54	5.3	117		-	-		75-125	-		35
Calcium, Total	4000	890	6300	**258**	Q	-	-		75-125	-		35
Chromium, Total	23.	17.8	42	107		-	-		75-125	-		35
Cobalt, Total	6.3	44.5	55	109		-	-		75-125	-		35
Copper, Total	27.	22.2	70	**193**	Q	-	-		75-125	-		35
Iron, Total	20000	89	33000	**14600**	Q	-	-		75-125	-		35
Lead, Total	100	45.4	160	**132**	Q	-	-		75-125	-		35
Magnesium, Total	2000	890	3000	112		-	-		75-125	-		35
Manganese, Total	320	44.5	520	**449**	Q	-	-		75-125	-		35
Nickel, Total	15.	44.5	66	115		-	-		75-125	-		35
Potassium, Total	730	890	1700	109		-	-		75-125	-		35
Selenium, Total	0.43J	10.7	11	103		-	-		75-125	-		35
Silver, Total	ND	26.7	28	105		-	-		75-125	-		35
Sodium, Total	160J	890	1100	124		-	-		75-125	-		35
Thallium, Total	ND	10.7	9.3	87		-	-		75-125	-		35
Vanadium, Total	32.	44.5	84	117		-	-		75-125	-		35

Matrix Spike Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG623850-4 QC Sample: L1313731-01 Client ID: B-3 (1-3)										
Zinc, Total	83.	44.5	140	**128**	Q	-	-	75-125	-	35
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG624190-4 QC Sample: L1313110-02 Client ID: MS Sample										
Mercury, Total	0.06J	0.156	0.29	**186**	Q	-	-	70-130	-	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG623850-3 QC Sample: L1313731-01 Client ID: B-3 (1-3)						
Aluminum, Total	8900	9200	mg/kg	3		35
Antimony, Total	0.86J	0.73J	mg/kg	NC		35
Arsenic, Total	3.0	3.5	mg/kg	15		35
Barium, Total	54.	56	mg/kg	4		35
Beryllium, Total	0.35J	0.37J	mg/kg	NC		35
Cadmium, Total	0.72J	0.69J	mg/kg	NC		35
Calcium, Total	4000	7100	mg/kg	**56**	Q	35
Chromium, Total	23.	18	mg/kg	24		35
Cobalt, Total	6.3	6.9	mg/kg	9		35
Copper, Total	27.	29	mg/kg	7		35
Iron, Total	20000	20000	mg/kg	0		35
Lead, Total	100	100	mg/kg	0		35
Magnesium, Total	2000	2200	mg/kg	10		35
Manganese, Total	320	370	mg/kg	14		35
Nickel, Total	15.	14	mg/kg	7		35
Potassium, Total	730	830	mg/kg	13		35
Selenium, Total	0.43J	0.50J	mg/kg	NC		35
Silver, Total	ND	ND	mg/kg	NC		35
Sodium, Total	160J	200	mg/kg	NC		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG623850-3 QC Sample: L1313731-01 Client ID: B-3 (1-3)					
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	32.	28	mg/kg	13	35
Zinc, Total	83.	79	mg/kg	5	35
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG624190-3 QC Sample: L1313110-02 Client ID: DUP Sample					
Mercury, Total	0.06J	0.05J	mg/kg	NC	35

INORGANICS
&
MISCELLANEOUS

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-01
Client ID: B-3 (1-3)
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 07/18/13 09:00
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.3		%	0.100	NA	1	-	07/20/13 02:50	30,2540G	RT

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-02
Client ID: B-4 (1.5-3)
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 07/18/13 10:30
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	07/20/13 02:50	30,2540G	RT

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313731-03
Client ID: B-2 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 07/18/13 13:00
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.9		%	0.100	NA	1	-	07/20/13 02:50	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG623060-1 QC Sample: L1313682-01 Client ID: DUP Sample						
Solids, Total	15.5	15.0	%	3		20

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 07/20/2013 00:55

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1313731-01A	Vial MeOH preserved	A	N/A	5.5	Y	Absent	NYTCL-8260HLW(14)
L1313731-01B	Vial water preserved	A	N/A	5.5	Y	Absent	NYTCL-8260HLW(14)
L1313731-01C	Vial water preserved	A	N/A	5.5	Y	Absent	NYTCL-8260HLW(14)
L1313731-01D	Amber 250ml unpreserved	A	N/A	5.5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1313731-01E	Plastic 2oz unpreserved for TS	A	N/A	5.5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1313731-02A	Vial MeOH preserved	A	N/A	5.5	Y	Absent	NYTCL-8260HLW(14)
L1313731-02B	Vial water preserved	A	N/A	5.5	Y	Absent	NYTCL-8260HLW(14)
L1313731-02C	Vial water preserved	A	N/A	5.5	Y	Absent	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313731
Report Date: 07/29/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1313731-02D	Amber 250ml unpreserved	A	N/A	5.5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1313731-02E	Plastic 2oz unpreserved for TS	A	N/A	5.5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1313731-03A	Vial MeOH preserved	A	N/A	5.5	Y	Absent	NYTCL-8260HLW(14)
L1313731-03B	Vial water preserved	A	N/A	5.5	Y	Absent	NYTCL-8260HLW(14)
L1313731-03C	Vial water preserved	A	N/A	5.5	Y	Absent	NYTCL-8260HLW(14)
L1313731-03D	Amber 250ml unpreserved	A	N/A	5.5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1313731-03E	Plastic 2oz unpreserved for TS	A	N/A	5.5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	HOPE ST.	**Lab Number:**	L1313731
Project Number:	1124G-13-01	**Report Date:**	07/29/13

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers

Project Name:	HOPE ST.	**Lab Number:**	L1313731
Project Number:	1124G-13-01	**Report Date:**	07/29/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers

Project Name:	HOPE ST.	**Lab Number:**	L1313731
Project Number:	1124G-13-01	**Report Date:**	07/29/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 2, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/19/13

ALPHA Job #: L1313731

Client Information

Client: FPM Group
Address: 909 Marconi Ave
Ronkonkoma, NY 11779
Phone: 631-737-6200
Fax: 631-737-2410
Email: b.cancemi@fpm-group.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Hope St
Project Location: Brooklyn, NY
Project #: 1124g-13-01
Project Manager: Ben Cancemi
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 7/26/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	TCL SVOCs	Pesticides 8081A	PCBs 8082	TAL Metals	Sample Specific Comments	TOTAL # BOTTLES
13731 -01	~~BH~~ GH B-3 (1-3)	7/18/13	9:00	S	BC/GH	✓	✓	✓	✓	✓		5
-02	B-4 (1.5-3)	↓	10:30	↓	↓	✓	✓	✓	✓	✓		↓
-03	B-2 (1-2)	↓	13:00	↓	↓	✓	✓	✓	✓	✓		↓

SAMPLE HANDLING
Filtration
☐ Done ☐ Not needed ☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	V	6	6	6	6
Preservative		A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	7/19/13 11:45		7/19/13 11:45
	7/19/13 19:30		7/19/13 19:30
	7/19/13 00:15		7/19/13 00:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L1313639
Client:	FPM Group 909 Marconi Avenue Ronkonkoma, NY 11779
ATTN:	Ben Cancemi
Phone:	(631) 737-6200
Project Name:	HOPE ST.
Project Number:	1124G-13-01
Report Date:	07/26/13

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1313639-01	SV-3	BROOKLYN, NY	07/17/13 13:41
L1313639-02	SV-4	BROOKLYN, NY	07/17/13 14:17
L1313639-03	SV-2	BROOKLYN, NY	07/18/13 12:04
L1313639-04	SV-1	BROOKLYN, NY	07/18/13 14:16

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	HOPE ST.	**Lab Number:**	L1313639
Project Number:	1124G-13-01	**Report Date:**	07/26/13

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on July 16, 2013. The canister certification results are provided as an addendum.

Samples L1313639-01, -02, -03 and -04 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 07/26/13

AIR

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

SAMPLE RESULTS

Lab ID: L1313639-01 D
Client ID: SV-3
Sample Location: BROOKLYN, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/22/13 20:57
Analyst: MR

Date Collected: 07/17/13 13:41
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Propylene	6.85	1.67	--	11.8	2.87	--		3.333
Dichlorodifluoromethane	ND	0.667	--	ND	3.30	--		3.333
Chloromethane	ND	0.667	--	ND	1.38	--		3.333
Freon-114	ND	0.667	--	ND	4.66	--		3.333
Vinyl chloride	ND	0.667	--	ND	1.71	--		3.333
1,3-Butadiene	ND	0.667	--	ND	1.48	--		3.333
Bromomethane	ND	0.667	--	ND	2.59	--		3.333
Chloroethane	ND	0.667	--	ND	1.76	--		3.333
Ethanol	ND	8.33	--	ND	15.7	--		3.333
Vinyl bromide	ND	0.667	--	ND	2.92	--		3.333
Acetone	8.78	3.33	--	20.9	7.91	--		3.333
Trichlorofluoromethane	ND	0.667	--	ND	3.75	--		3.333
Isopropanol	ND	1.67	--	ND	4.10	--		3.333
1,1-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333
Methylene chloride	ND	3.33	--	ND	11.6	--		3.333
3-Chloropropene	ND	0.667	--	ND	2.09	--		3.333
Carbon disulfide	1.44	0.667	--	4.48	2.08	--		3.333
Freon-113	ND	0.667	--	ND	5.11	--		3.333
trans-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333
1,1-Dichloroethane	ND	0.667	--	ND	2.70	--		3.333
Methyl tert butyl ether	ND	0.667	--	ND	2.40	--		3.333
Vinyl acetate	ND	0.667	--	ND	2.35	--		3.333
2-Butanone	1.20	0.667	--	3.54	1.97	--		3.333
cis-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

SAMPLE RESULTS

Lab ID: L1313639-01 D
Client ID: SV-3
Sample Location: BROOKLYN, NY

Date Collected: 07/17/13 13:41
Date Received: 07/19/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.67	--	ND	6.02	--		3.333
Chloroform	6.50	0.667	--	31.7	3.26	--		3.333
Tetrahydrofuran	ND	0.667	--	ND	1.97	--		3.333
1,2-Dichloroethane	ND	0.667	--	ND	2.70	--		3.333
n-Hexane	2.10	0.667	--	7.40	2.35	--		3.333
1,1,1-Trichloroethane	ND	0.667	--	ND	3.64	--		3.333
Benzene	1.25	0.667	--	3.99	2.13	--		3.333
Carbon tetrachloride	ND	0.667	--	ND	4.20	--		3.333
Cyclohexane	ND	0.667	--	ND	2.30	--		3.333
1,2-Dichloropropane	1.48	0.667	--	6.84	3.08	--		3.333
Bromodichloromethane	ND	0.667	--	ND	4.47	--		3.333
1,4-Dioxane	ND	0.667	--	ND	2.40	--		3.333
Trichloroethene	0.900	0.667	--	4.84	3.58	--		3.333
2,2,4-Trimethylpentane	ND	0.667	--	ND	3.12	--		3.333
Heptane	0.876	0.667	--	3.59	2.73	--		3.333
cis-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
4-Methyl-2-pentanone	ND	0.667	--	ND	2.73	--		3.333
trans-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
1,1,2-Trichloroethane	ND	0.667	--	ND	3.64	--		3.333
Toluene	2.38	0.667	--	8.97	2.51	--		3.333
2-Hexanone	ND	0.667	--	ND	2.73	--		3.333
Dibromochloromethane	ND	0.667	--	ND	5.68	--		3.333
1,2-Dibromoethane	ND	0.667	--	ND	5.13	--		3.333
Tetrachloroethene	214	0.667	--	1450	4.52	--		3.333
Chlorobenzene	ND	0.667	--	ND	3.07	--		3.333
Ethylbenzene	ND	0.667	--	ND	2.90	--		3.333
p/m-Xylene	ND	1.33	--	ND	5.78	--		3.333
Bromoform	ND	0.667	--	ND	6.90	--		3.333

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

SAMPLE RESULTS

Lab ID: L1313639-01 D
Client ID: SV-3
Sample Location: BROOKLYN, NY

Date Collected: 07/17/13 13:41
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.667	--	ND	2.84	--		3.333
1,1,2,2-Tetrachloroethane	ND	0.667	--	ND	4.58	--		3.333
o-Xylene	ND	0.667	--	ND	2.90	--		3.333
4-Ethyltoluene	ND	0.667	--	ND	3.28	--		3.333
1,3,5-Trimethylbenzene	ND	0.667	--	ND	3.28	--		3.333
1,2,4-Trimethylbenzene	ND	0.667	--	ND	3.28	--		3.333
Benzyl chloride	ND	0.667	--	ND	3.45	--		3.333
1,3-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,4-Dichlorobenzene	13.4	0.667	--	80.6	4.01	--		3.333
1,2-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2,4-Trichlorobenzene	ND	0.667	--	ND	4.95	--		3.333
Hexachlorobutadiene	ND	0.667	--	ND	7.11	--		3.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	90		60-140

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

SAMPLE RESULTS

Lab ID: L1313639-02 D
Client ID: SV-4
Sample Location: BROOKLYN, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/22/13 21:28
Analyst: MR

Date Collected: 07/17/13 14:17
Date Received: 07/19/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Propylene	7.63	5.00	--	13.1	8.61	--		10
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	25.0	--	ND	47.1	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	24.5	10.0	--	58.2	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Methylene chloride	ND	10.0	--	ND	34.7	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
Vinyl acetate	ND	2.00	--	ND	7.04	--		10
2-Butanone	ND	2.00	--	ND	5.90	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

SAMPLE RESULTS

Lab ID: L1313639-02 D
Client ID: SV-4
Sample Location: BROOKLYN, NY

Date Collected: 07/17/13 14:17
Date Received: 07/19/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	2.00	--	ND	5.90	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	5.26	2.00	--	18.5	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	ND	2.00	--	ND	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	ND	2.00	--	ND	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	2.00	--	ND	8.20	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	ND	2.00	--	ND	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	452	2.00	--	3070	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10
p/m-Xylene	ND	4.00	--	ND	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

SAMPLE RESULTS

Lab ID: L1313639-02 D
Client ID: SV-4
Sample Location: BROOKLYN, NY

Date Collected: 07/17/13 14:17
Date Received: 07/19/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	ND	2.00	--	ND	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	81		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	86		60-140

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

SAMPLE RESULTS

Lab ID: L1313639-03 D
Client ID: SV-2
Sample Location: BROOKLYN, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/22/13 22:30
Analyst: MR

Date Collected: 07/18/13 12:04
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Propylene	62.2	17.1	--	107	29.4	--		34.26
Dichlorodifluoromethane	ND	6.85	--	ND	33.9	--		34.26
Chloromethane	ND	6.85	--	ND	14.1	--		34.26
Freon-114	ND	6.85	--	ND	47.9	--		34.26
Vinyl chloride	10.9	6.85	--	27.9	17.5	--		34.26
1,3-Butadiene	ND	6.85	--	ND	15.2	--		34.26
Bromomethane	ND	6.85	--	ND	26.6	--		34.26
Chloroethane	ND	6.85	--	ND	18.1	--		34.26
Ethanol	ND	85.6	--	ND	161	--		34.26
Vinyl bromide	ND	6.85	--	ND	29.9	--		34.26
Acetone	337	34.3	--	801	81.5	--		34.26
Trichlorofluoromethane	ND	6.85	--	ND	38.5	--		34.26
Isopropanol	21.0	17.1	--	51.6	42.0	--		34.26
1,1-Dichloroethene	ND	6.85	--	ND	27.2	--		34.26
Methylene chloride	ND	34.3	--	ND	119	--		34.26
3-Chloropropene	ND	6.85	--	ND	21.4	--		34.26
Carbon disulfide	8.08	6.85	--	25.2	21.3	--		34.26
Freon-113	ND	6.85	--	ND	52.5	--		34.26
trans-1,2-Dichloroethene	ND	6.85	--	ND	27.2	--		34.26
1,1-Dichloroethane	ND	6.85	--	ND	27.7	--		34.26
Methyl tert butyl ether	ND	6.85	--	ND	24.7	--		34.26
Vinyl acetate	ND	6.85	--	ND	24.1	--		34.26
2-Butanone	54.8	6.85	--	162	20.2	--		34.26
cis-1,2-Dichloroethene	136	6.85	--	539	27.2	--		34.26

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

SAMPLE RESULTS

Lab ID: L1313639-03 D
Client ID: SV-2
Sample Location: BROOKLYN, NY

Date Collected: 07/18/13 12:04
Date Received: 07/19/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	86.9	17.1	--	313	61.6	--		34.26
Chloroform	ND	6.85	--	ND	33.5	--		34.26
Tetrahydrofuran	ND	6.85	--	ND	20.2	--		34.26
1,2-Dichloroethane	ND	6.85	--	ND	27.7	--		34.26
n-Hexane	453	6.85	--	1600	24.1	--		34.26
1,1,1-Trichloroethane	ND	6.85	--	ND	37.4	--		34.26
Benzene	ND	6.85	--	ND	21.9	--		34.26
Carbon tetrachloride	ND	6.85	--	ND	43.1	--		34.26
Cyclohexane	307	6.85	--	1060	23.6	--		34.26
1,2-Dichloropropane	ND	6.85	--	ND	31.7	--		34.26
Bromodichloromethane	ND	6.85	--	ND	45.9	--		34.26
1,4-Dioxane	ND	6.85	--	ND	24.7	--		34.26
Trichloroethene	516	6.85	--	2770	36.8	--		34.26
2,2,4-Trimethylpentane	ND	6.85	--	ND	32.0	--		34.26
Heptane	425	6.85	--	1740	28.1	--		34.26
cis-1,3-Dichloropropene	ND	6.85	--	ND	31.1	--		34.26
4-Methyl-2-pentanone	ND	6.85	--	ND	28.1	--		34.26
trans-1,3-Dichloropropene	ND	6.85	--	ND	31.1	--		34.26
1,1,2-Trichloroethane	ND	6.85	--	ND	37.4	--		34.26
Toluene	452	6.85	--	1700	25.8	--		34.26
2-Hexanone	ND	6.85	--	ND	28.1	--		34.26
Dibromochloromethane	ND	6.85	--	ND	58.4	--		34.26
1,2-Dibromoethane	ND	6.85	--	ND	52.6	--		34.26
Tetrachloroethene	2540	6.85	--	17200	46.5	--		34.26
Chlorobenzene	ND	6.85	--	ND	31.5	--		34.26
Ethylbenzene	ND	6.85	--	ND	29.8	--		34.26
p/m-Xylene	15.3	13.7	--	66.5	59.5	--		34.26
Bromoform	ND	6.85	--	ND	70.8	--		34.26

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

SAMPLE RESULTS

Lab ID: L1313639-03 D
Client ID: SV-2
Sample Location: BROOKLYN, NY

Date Collected: 07/18/13 12:04
Date Received: 07/19/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	6.85	--	ND	29.2	--		34.26
1,1,2,2-Tetrachloroethane	ND	6.85	--	ND	47.0	--		34.26
o-Xylene	ND	6.85	--	ND	29.8	--		34.26
4-Ethyltoluene	ND	6.85	--	ND	33.7	--		34.26
1,3,5-Trimethylbenzene	ND	6.85	--	ND	33.7	--		34.26
1,2,4-Trimethylbenzene	ND	6.85	--	ND	33.7	--		34.26
Benzyl chloride	ND	6.85	--	ND	35.5	--		34.26
1,3-Dichlorobenzene	ND	6.85	--	ND	41.2	--		34.26
1,4-Dichlorobenzene	16.2	6.85	--	97.4	41.2	--		34.26
1,2-Dichlorobenzene	ND	6.85	--	ND	41.2	--		34.26
1,2,4-Trichlorobenzene	ND	6.85	--	ND	50.8	--		34.26
Hexachlorobutadiene	ND	6.85	--	ND	73.1	--		34.26

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	89		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	103		60-140

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

SAMPLE RESULTS

Lab ID: L1313639-04 D
Client ID: SV-1
Sample Location: BROOKLYN, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/22/13 23:02
Analyst: MR

Date Collected: 07/18/13 14:16
Date Received: 07/19/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Propylene	1090	184	--	1880	317	--		367.7
Dichlorodifluoromethane	ND	73.5	--	ND	363	--		367.7
Chloromethane	ND	73.5	--	ND	152	--		367.7
Freon-114	ND	73.5	--	ND	514	--		367.7
Vinyl chloride	ND	73.5	--	ND	188	--		367.7
1,3-Butadiene	ND	73.5	--	ND	163	--		367.7
Bromomethane	ND	73.5	--	ND	285	--		367.7
Chloroethane	ND	73.5	--	ND	194	--		367.7
Ethanol	ND	919	--	ND	1730	--		367.7
Vinyl bromide	ND	73.5	--	ND	321	--		367.7
Acetone	437	368	--	1040	874	--		367.7
Trichlorofluoromethane	ND	73.5	--	ND	413	--		367.7
Isopropanol	ND	184	--	ND	452	--		367.7
1,1-Dichloroethene	ND	73.5	--	ND	291	--		367.7
Methylene chloride	ND	368	--	ND	1280	--		367.7
3-Chloropropene	ND	73.5	--	ND	230	--		367.7
Carbon disulfide	20300	73.5	--	63200	229	--		367.7
Freon-113	ND	73.5	--	ND	563	--		367.7
trans-1,2-Dichloroethene	ND	73.5	--	ND	291	--		367.7
1,1-Dichloroethane	ND	73.5	--	ND	297	--		367.7
Methyl tert butyl ether	ND	73.5	--	ND	265	--		367.7
Vinyl acetate	ND	73.5	--	ND	259	--		367.7
2-Butanone	ND	73.5	--	ND	217	--		367.7
cis-1,2-Dichloroethene	ND	73.5	--	ND	291	--		367.7

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

SAMPLE RESULTS

Lab ID: L1313639-04 D
Client ID: SV-1
Sample Location: BROOKLYN, NY

Date Collected: 07/18/13 14:16
Date Received: 07/19/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	184.	--	ND	663	--		367.7
Chloroform	ND	73.5	--	ND	359	--		367.7
Tetrahydrofuran	ND	73.5	--	ND	217	--		367.7
1,2-Dichloroethane	ND	73.5	--	ND	297	--		367.7
n-Hexane	9950	73.5	--	35100	259	--		367.7
1,1,1-Trichloroethane	ND	73.5	--	ND	401	--		367.7
Benzene	130	73.5	--	415	235	--		367.7
Carbon tetrachloride	ND	73.5	--	ND	462	--		367.7
Cyclohexane	100	73.5	--	344	253	--		367.7
1,2-Dichloropropane	ND	73.5	--	ND	340	--		367.7
Bromodichloromethane	ND	73.5	--	ND	492	--		367.7
1,4-Dioxane	ND	73.5	--	ND	265	--		367.7
Trichloroethene	116	73.5	--	623	395	--		367.7
2,2,4-Trimethylpentane	ND	73.5	--	ND	343	--		367.7
Heptane	3000	73.5	--	12300	301	--		367.7
cis-1,3-Dichloropropene	ND	73.5	--	ND	334	--		367.7
4-Methyl-2-pentanone	ND	73.5	--	ND	301	--		367.7
trans-1,3-Dichloropropene	ND	73.5	--	ND	334	--		367.7
1,1,2-Trichloroethane	ND	73.5	--	ND	401	--		367.7
Toluene	152	73.5	--	573	277	--		367.7
2-Hexanone	ND	73.5	--	ND	301	--		367.7
Dibromochloromethane	ND	73.5	--	ND	626	--		367.7
1,2-Dibromoethane	ND	73.5	--	ND	565	--		367.7
Tetrachloroethene	767	73.5	--	5200	498	--		367.7
Chlorobenzene	ND	73.5	--	ND	338	--		367.7
Ethylbenzene	ND	73.5	--	ND	319	--		367.7
p/m-Xylene	ND	147.	--	ND	639	--		367.7
Bromoform	ND	73.5	--	ND	760	--		367.7

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

SAMPLE RESULTS

Lab ID: L1313639-04 D
Client ID: SV-1
Sample Location: BROOKLYN, NY

Date Collected: 07/18/13 14:16
Date Received: 07/19/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	73.5	--	ND	313	--		367.7
1,1,2,2-Tetrachloroethane	ND	73.5	--	ND	505	--		367.7
o-Xylene	ND	73.5	--	ND	319	--		367.7
4-Ethyltoluene	ND	73.5	--	ND	361	--		367.7
1,3,5-Trimethylbenzene	ND	73.5	--	ND	361	--		367.7
1,2,4-Trimethylbenzene	ND	73.5	--	ND	361	--		367.7
Benzyl chloride	ND	73.5	--	ND	381	--		367.7
1,3-Dichlorobenzene	ND	73.5	--	ND	442	--		367.7
1,4-Dichlorobenzene	ND	73.5	--	ND	442	--		367.7
1,2-Dichlorobenzene	ND	73.5	--	ND	442	--		367.7
1,2,4-Trichlorobenzene	ND	73.5	--	ND	546	--		367.7
Hexachlorobutadiene	ND	73.5	--	ND	784	--		367.7

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	96		60-140

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/22/13 13:34

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG623368-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: HOPE ST.
Project Number: 1124G-13-01
Lab Number: L1313639
Report Date: 07/26/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/22/13 13:34

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG623368-4								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/22/13 13:34

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG623368-4								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313639

Report Date: 07/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG623368-3								
Chlorodifluoromethane	87		-		70-130	-		
Propylene	94		-		70-130	-		
Dichlorodifluoromethane	108		-		70-130	-		
Chloromethane	87		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	99		-		70-130	-		
Methanol	97		-		70-130	-		
Vinyl chloride	91		-		70-130	-		
1,3-Butadiene	92		-		70-130	-		
Butane	81		-		70-130	-		
Bromomethane	99		-		70-130	-		
Chloroethane	87		-		70-130	-		
Ethyl Alcohol	89		-		70-130	-		
Dichlorofluoromethane	91		-		70-130	-		
Vinyl bromide	101		-		70-130	-		
Acrolein	78		-		70-130	-		
Acetone	128		-		70-130	-		
Acetonitrile	93		-		70-130	-		
Trichlorofluoromethane	126		-		70-130	-		
iso-Propyl Alcohol	106		-		70-130	-		
Acrylonitrile	88		-		70-130	-		
Pentane	86		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313639

Report Date: 07/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG623368-3								
Ethyl ether	88		-		70-130	-		
1,1-Dichloroethene	105		-		70-130	-		
tert-Butyl Alcohol	97		-		70-130	-		
Methylene chloride	100		-		70-130	-		
3-Chloropropene	118		-		70-130	-		
Carbon disulfide	96		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	111		-		70-130	-		
trans-1,2-Dichloroethene	90		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
Methyl tert butyl ether	93		-		70-130	-		
Vinyl acetate	101		-		70-130	-		
2-Butanone	95		-		70-130	-		
cis-1,2-Dichloroethene	117		-		70-130	-		
Ethyl Acetate	92		-		70-130	-		
Chloroform	118		-		70-130	-		
Tetrahydrofuran	90		-		70-130	-		
2,2-Dichloropropane	103		-		70-130	-		
1,2-Dichloroethane	111		-		70-130	-		
n-Hexane	108		-		70-130	-		
Isopropyl Ether	98		-		70-130	-		
Ethyl-Tert-Butyl-Ether	106		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313639

Report Date: 07/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG623368-3								
1,1,1-Trichloroethane	123		-		70-130	-		
1,1-Dichloropropene	103		-		70-130	-		
Benzene	89		-		70-130	-		
Carbon tetrachloride	128		-		70-130	-		
Cyclohexane	86		-		70-130	-		
Tertiary-Amyl Methyl Ether	87		-		70-130	-		
Dibromomethane	102		-		70-130	-		
1,2-Dichloropropane	91		-		70-130	-		
Bromodichloromethane	109		-		70-130	-		
1,4-Dioxane	90		-		70-130	-		
Trichloroethene	108		-		70-130	-		
2,2,4-Trimethylpentane	92		-		70-130	-		
Methyl methacrylate	120		-		70-130	-		
Heptane	96		-		70-130	-		
cis-1,3-Dichloropropene	101		-		70-130	-		
4-Methyl-2-pentanone	93		-		70-130	-		
trans-1,3-Dichloropropene	91		-		70-130	-		
1,1,2-Trichloroethane	104		-		70-130	-		
Toluene	83		-		70-130	-		
1,3-Dichloropropane	79		-		70-130	-		
2-Hexanone	81		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313639

Report Date: 07/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG623368-3								
Dibromochloromethane	93		-		70-130	-		
1,2-Dibromoethane	95		-		70-130	-		
Octane	74		-		70-130	-		
Tetrachloroethene	95		-		70-130	-		
1,1,1,2-Tetrachloroethane	96		-		70-130	-		
Chlorobenzene	92		-		70-130	-		
Ethylbenzene	90		-		70-130	-		
p/m-Xylene	92		-		70-130	-		
Bromoform	91		-		70-130	-		
Styrene	86		-		70-130	-		
1,1,2,2-Tetrachloroethane	91		-		70-130	-		
o-Xylene	96		-		70-130	-		
1,2,3-Trichloropropane	80		-		70-130	-		
Nonane (C9)	73		-		70-130	-		
Isopropylbenzene	90		-		70-130	-		
Bromobenzene	85		-		70-130	-		
o-Chlorotoluene	90		-		70-130	-		
n-Propylbenzene	89		-		70-130	-		
p-Chlorotoluene	90		-		70-130	-		
4-Ethyltoluene	80		-		70-130	-		
1,3,5-Trimethylbenzene	97		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG623368-3								
tert-Butylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	100		-		70-130	-		
Decane (C10)	82		-		70-130	-		
Benzyl chloride	72		-		70-130	-		
1,3-Dichlorobenzene	97		-		70-130	-		
1,4-Dichlorobenzene	97		-		70-130	-		
sec-Butylbenzene	91		-		70-130	-		
p-Isopropyltoluene	88		-		70-130	-		
1,2-Dichlorobenzene	97		-		70-130	-		
n-Butylbenzene	93		-		70-130	-		
1,2-Dibromo-3-chloropropane	102		-		70-130	-		
Undecane	89		-		70-130	-		
Dodecane (C12)	104		-		70-130	-		
1,2,4-Trichlorobenzene	101		-		70-130	-		
Naphthalene	93		-		70-130	-		
1,2,3-Trichlorobenzene	96		-		70-130	-		
Hexachlorobutadiene	110		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG623368-5 QC Sample: L1313639-02 Client ID: SV-4						
Propylene	7.63	7.19	ppbV	6		25
Dichlorodifluoromethane	ND	ND	ppbV	NC		25
Chloromethane	ND	ND	ppbV	NC		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	24.5	25.0	ppbV	2		25
Trichlorofluoromethane	ND	2.03	ppbV	NC		25
Isopropanol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG623368-5 QC Sample: L1313639-02 Client ID: SV-4					
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
Vinyl acetate	ND	ND	ppbV	NC	25
2-Butanone	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	5.26	4.41	ppbV	18	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Benzene	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG623368-5 QC Sample: L1313639-02 Client ID: SV-4					
Heptane	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	ND	ND	ppbV	NC	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	452	445	ppbV	2	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG623368-5 QC Sample: L1313639-02 Client ID: SV-4					
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313639

Report Date: 07/26/13

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1313639-01	SV-3	0575	#90 SV	07/16/13	90700		-	-	-	Pass	35	38	8
L1313639-01	SV-3	471	2.7L Can	07/16/13	90700	L1312055-01	Pass	-29.5	-0.1	-	-	-	-
L1313639-02	SV-4	0282	#30 SV	07/16/13	90700		-	-	-	Pass	31	31	0
L1313639-02	SV-4	190	2.7L Can	07/16/13	90700	L1312055-01	Pass	-29.4	-7.3	-	-	-	-
L1313639-03	SV-2	0005	#30 AMB	07/16/13	90700		-	-	-	Pass	32	35	9
L1313639-03	SV-2	478	2.7L Can	07/16/13	90700	L1312055-01	Pass	-29.7	-5.3	-	-	-	-
L1313639-04	SV-1	0161	#90 SV	07/16/13	90700		-	-	-	Pass	30	32	6
L1313639-04	SV-1	340	2.7L Can	07/16/13	90700	L1312055-01	Pass	-28.2	-7.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1312055
Report Date: 07/26/13

Air Canister Certification Results

Lab ID: L1312055-01
Client ID: CAN 536 SHELF 10
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/28/13 17:23
Analyst: RY

Date Collected: 06/27/13 15:26
Date Received: 06/28/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1312055
Report Date: 07/26/13

Air Canister Certification Results

Lab ID: L1312055-01
Client ID: CAN 536 SHELF 10
Sample Location:
Date Collected: 06/27/13 15:26
Date Received: 06/28/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1312055
Report Date: 07/26/13

Air Canister Certification Results

Lab ID: L1312055-01
Client ID: CAN 536 SHELF 10
Sample Location:
Date Collected: 06/27/13 15:26
Date Received: 06/28/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1312055
Report Date: 07/26/13

Air Canister Certification Results

Lab ID: L1312055-01
Client ID: CAN 536 SHELF 10
Sample Location:
Date Collected: 06/27/13 15:26
Date Received: 06/28/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1312055
Report Date: 07/26/13

Air Canister Certification Results

Lab ID: L1312055-01
Client ID: CAN 536 SHELF 10
Sample Location:

Date Collected: 06/27/13 15:26
Date Received: 06/28/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	104		60-140
chlorobenzene-d5	105		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1312055

Project Number: CANISTER QC BAT **Report Date:** 07/26/13

Air Canister Certification Results

Lab ID: L1312055-01
Client ID: CAN 536 SHELF 10
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/28/13 17:23
Analyst: RY

Date Collected: 06/27/13 15:26
Date Received: 06/28/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1312055
Report Date: 07/26/13

Air Canister Certification Results

Lab ID: L1312055-01
Client ID: CAN 536 SHELF 10
Sample Location:
Date Collected: 06/27/13 15:26
Date Received: 06/28/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L1312055
Report Date: 07/26/13

Air Canister Certification Results

Lab ID: L1312055-01
Client ID: CAN 536 SHELF 10
Sample Location:
Date Collected: 06/27/13 15:26
Date Received: 06/28/13
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	98		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	106		60-140

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313639
Report Date: 07/26/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**
Cooler
N/A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1313639-01A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1313639-02A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1313639-03A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1313639-04A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	HOPE ST.	**Lab Number:**	L1313639
Project Number:	1124G-13-01	**Report Date:**	07/26/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report

Project Name:	HOPE ST.	**Lab Number:**	L1313639
Project Number:	1124G-13-01	**Report Date:**	07/26/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	HOPE ST.	**Lab Number:**	L1313639
Project Number:	1124G-13-01	**Report Date:**	07/26/13

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 3, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable). Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Titanium, Vanadium, Zinc, Total Organic Carbon, Corrosivity, TCLP 1311, SPLP 1312. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020A, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050B, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B, 3020A, . Organic Parameters: EPA 3510C, 3630C, 3640A, 3660B, 8081B, 8082A, 8270C, 8270D, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 3050B, 3051A, 6020A, 7471B, 9040B, 9045C. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3020A, SM2320B, SM2540D, 2540G, 4500H-B, EPA 180.1, 1631E, SW-846 7470A, 9040C, 6020A, 9050A. Organic Parameters: SW-846 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 6020A, 7471B, 7474, 9040B, 9040C, 9045C, 9045D, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8081B, 8082A, 8270C, 8270D, 8015D.)

Atmospheric Organic Parameters (EPA 3C, TO-15, TO-10A, TO-13A-SIM.)

Biological Tissue (Inorganic Parameters: SW-846 6020A. Organic Parameters: SW-846 8270C, 8270D, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, 6020A, 1631E, 7470A, 9050A, EPA 180.1, 3020A. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 3510C.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A, 7471B, 7474, 9040C, 9045D. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 1311, 3050B, 3580A, 3570, 3051A.)

Air & Emissions (EPA TO-15, TO-10A.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Non-Potable Water (Inorganic Parameters: 1312, 1631E, 180.1, 3020A, 6020A, 7470A, 9040B, 9050A, 2320B, 2540D, 2540G, SM4500H+-B. Organic Parameters: 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D .)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3051A, 6020A, 7471B, 7474 9040B, 9045C, 9060. Organic Parameters: EPA3050B, 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8270D, 8081B, 8015D, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via NJ-DEP.***

Refer to NJ-DEP Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID:460194. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters:EPA 3020A, 6020A, 245.7, 9040B. Organic Parameters: EPA 3510C, 3640A, 3660B, 3665A, 8270C, 8270D, 8082A, 8081B, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051, 9060. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015, 8270.)

U.S. Army Corps of Engineers

Department of Defense, L-A-B Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH, 8082A, 8081B, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH 8082A, 8081B, 8015D-SHC, 8015D.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1313639

Client Information

Client: FPM Group
Address: 909 Marconi Avenue, Ronkonkoma, NY 11779
Phone: 631-737-6200
Fax: 631-737-2410
Email: b.cancemi@fpm-group.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Hope St.
Project Location: Brooklyn, NY
Project #: 1124g-13-01
Project Manager: Ben Cancemi
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH *(only confirmed if pre-approved!)*
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
L1313639-1	SV-3	7/17/13	12:22	13:41	-29.88	-0.66	SV	JB/GH	2.6L	471	0575		X						
-2	SV-4	↓	13:05	14:17	-29.87	-7.49		↓	2.6L	190	0282								
-3	SV-2	7/18/13	10:49	12:04	-30.11	-4.89		BC/GH	2.6L	478	0005								
-4	SV-1	↓	13:06	14:16	-28.50	-6.35	↓	↓	2.6L	340	0161		↓						

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
	7/18/13 11:45		7/19/13 11:45
	7/18/13 19:09		7/19/13 19:20
	7/20/13 00:15		7/20/13 00:15
	7/20/13 04:30	Mansfield Lab	7/20/13 04:30

ANALYTICAL REPORT

Lab Number:	L1313489
Client:	FPM Group 909 Marconi Avenue Ronkonkoma, NY 11779
ATTN:	Ben Cancemi
Phone:	(631) 737-6200
Project Name:	HOPE ST.
Project Number:	1124G-13-01
Report Date:	07/29/13

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1313489-01	B-1 (1-2)	BROOKLYN, NY	07/17/13 10:00
L1313489-02	B-5 (1-2)	BROOKLYN, NY	07/17/13 11:00
L1313489-03	B-6 (1-2)	BROOKLYN, NY	07/17/13 12:00
L1313489-04	B-7 (1-2)	BROOKLYN, NY	07/17/13 13:00
L1313489-05	B-8 (1-2)	BROOKLYN, NY	07/17/13 14:00

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	HOPE ST.	**Lab Number:**	L1313489
Project Number:	1124G-13-01	**Report Date:**	07/29/13

Case Narrative (continued)

Report Submission

This final report replaces the partial report issued on July 26, 2013, and includes the results of all requested analyses.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1313489-01: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

Semivolatile Organics

L1313489-04 and -05 have elevated detection limits due to the dilutions required by the sample matrices.

The WG624662-2/-3 LCS/LCSD recoveries, associated with L1313489-01, are below the acceptance criteria for Benzoic Acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

Pesticides

L1313489-01 and -02 have elevated detection limits due to the dilutions required by the sample matrices.

The surrogate recoveries for L1313489-01 and -02 are below the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene and Decachlorobiphenyl (all 0%) due to the dilutions required to quantitate the samples. Re-extraction was not required; therefore, the results of the original analyses are reported.

Metals

L1313489-01 through -05 have elevated detection limits for all elements, with the exception of Mercury, due to the dilutions required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 07/29/13

ORGANICS

VOLATILES

Project Name: HOPE ST.
Project Number: 1124G-13-01
Lab Number: L1313489
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-01
Client ID: B-1 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/23/13 09:57
Analyst: BN
Percent Solids: 85%

Date Collected: 07/17/13 10:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	490	J	ug/kg	580	120	1
1,1-Dichloroethane	ND		ug/kg	86	10.	1
Chloroform	ND		ug/kg	86	21.	1
Carbon tetrachloride	ND		ug/kg	58	12.	1
1,2-Dichloropropane	ND		ug/kg	200	13.	1
Dibromochloromethane	ND		ug/kg	58	18.	1
1,1,2-Trichloroethane	ND		ug/kg	86	18.	1
Tetrachloroethene	ND		ug/kg	58	8.1	1
Chlorobenzene	ND		ug/kg	58	20.	1
Trichlorofluoromethane	ND		ug/kg	290	7.0	1
1,2-Dichloroethane	ND		ug/kg	58	8.4	1
1,1,1-Trichloroethane	ND		ug/kg	58	6.4	1
Bromodichloromethane	ND		ug/kg	58	13.	1
trans-1,3-Dichloropropene	ND		ug/kg	58	7.0	1
cis-1,3-Dichloropropene	ND		ug/kg	58	7.3	1
1,1-Dichloropropene	ND		ug/kg	290	26.	1
Bromoform	ND		ug/kg	230	24.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	58	9.8	1
Benzene	66		ug/kg	58	6.8	1
Toluene	270		ug/kg	86	6.4	1
Ethylbenzene	130		ug/kg	58	8.5	1
Chloromethane	ND		ug/kg	290	45.	1
Bromomethane	ND		ug/kg	120	19.	1
Vinyl chloride	ND		ug/kg	120	8.1	1
Chloroethane	ND		ug/kg	120	18.	1
1,1-Dichloroethene	ND		ug/kg	58	12.	1
trans-1,2-Dichloroethene	ND		ug/kg	86	12.	1
Trichloroethene	ND		ug/kg	58	8.8	1
1,2-Dichlorobenzene	ND		ug/kg	290	10.	1
1,3-Dichlorobenzene	ND		ug/kg	290	10.	1
1,4-Dichlorobenzene	ND		ug/kg	290	14.	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-01 Date Collected: 07/17/13 10:00

Client ID: B-1 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	120	6.0	1
p/m-Xylene	550		ug/kg	120	18.	1
o-Xylene	160		ug/kg	120	16.	1
cis-1,2-Dichloroethene	ND		ug/kg	58	8.6	1
Dibromomethane	ND		ug/kg	580	9.4	1
Styrene	ND		ug/kg	120	18.	1
Dichlorodifluoromethane	ND		ug/kg	580	12.	1
Acetone	ND		ug/kg	580	180	1
Carbon disulfide	ND		ug/kg	580	120	1
2-Butanone	ND		ug/kg	580	20.	1
Vinyl acetate	ND		ug/kg	580	28.	1
4-Methyl-2-pentanone	ND		ug/kg	580	14.	1
1,2,3-Trichloropropane	ND		ug/kg	580	13.	1
2-Hexanone	ND		ug/kg	580	11.	1
Bromochloromethane	ND		ug/kg	290	11.	1
2,2-Dichloropropane	ND		ug/kg	290	13.	1
1,2-Dibromoethane	ND		ug/kg	230	10.	1
1,3-Dichloropropane	ND		ug/kg	290	10.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	58	18.	1
Bromobenzene	ND		ug/kg	290	12.	1
n-Butylbenzene	ND		ug/kg	58	11.	1
sec-Butylbenzene	150		ug/kg	58	12.	1
tert-Butylbenzene	57	J	ug/kg	290	32.	1
o-Chlorotoluene	ND		ug/kg	290	9.2	1
p-Chlorotoluene	ND		ug/kg	290	8.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	290	45.	1
Hexachlorobutadiene	ND		ug/kg	290	24.	1
Isopropylbenzene	ND		ug/kg	58	9.6	1
p-Isopropyltoluene	ND		ug/kg	58	11.	1
Naphthalene	ND		ug/kg	290	44.	1
Acrylonitrile	ND		ug/kg	580	14.	1
n-Propylbenzene	ND		ug/kg	58	7.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	290	9.7	1
1,2,4-Trichlorobenzene	ND		ug/kg	290	45.	1
1,3,5-Trimethylbenzene	ND		ug/kg	290	8.2	1
1,2,4-Trimethylbenzene	ND		ug/kg	290	33.	1
1,4-Dioxane	ND		ug/kg	5800	1000	1
1,4-Diethylbenzene	200	J	ug/kg	230	9.2	1
4-Ethyltoluene	310		ug/kg	230	6.7	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-01 Date Collected: 07/17/13 10:00

Client ID: B-1 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4,5-Tetramethylbenzene	340		ug/kg	230	7.5	1
Ethyl ether	ND		ug/kg	290	15.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	290	26.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-02
Client ID: B-5 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/20/13 06:43
Analyst: PP
Percent Solids: 86%

Date Collected: 07/17/13 11:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.21	1
Chloroform	ND		ug/kg	1.8	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.36	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.35	1
Tetrachloroethene	0.76	J	ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.53	1
Bromoform	ND		ug/kg	4.7	0.48	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.20	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.8	0.91	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.16	1
Chloroethane	ND		ug/kg	2.3	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.28	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-02 Date Collected: 07/17/13 11:00

Client ID: B-5 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.3	0.12	1
p/m-Xylene	ND		ug/kg	2.3	0.38	1
o-Xylene	ND		ug/kg	2.3	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.3	0.36	1
Dichlorodifluoromethane	ND		ug/kg	12	0.25	1
Acetone	ND		ug/kg	12	3.6	1
Carbon disulfide	ND		ug/kg	12	2.3	1
2-Butanone	ND		ug/kg	12	0.41	1
Vinyl acetate	ND		ug/kg	12	0.56	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.26	1
2-Hexanone	ND		ug/kg	12	0.22	1
Bromochloromethane	ND		ug/kg	5.8	0.23	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.8	0.65	1
o-Chlorotoluene	ND		ug/kg	5.8	0.19	1
p-Chlorotoluene	ND		ug/kg	5.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.92	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.49	1
Isopropylbenzene	ND		ug/kg	1.2	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.22	1
Naphthalene	ND		ug/kg	5.8	0.90	1
Acrylonitrile	ND		ug/kg	12	0.28	1
n-Propylbenzene	ND		ug/kg	1.2	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.92	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.67	1
1,4-Dioxane	ND		ug/kg	120	20.	1
1,4-Diethylbenzene	ND		ug/kg	4.7	0.19	1
4-Ethyltoluene	ND		ug/kg	4.7	0.14	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-02 Date Collected: 07/17/13 11:00

Client ID: B-5 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.7	0.15	1
Ethyl ether	ND		ug/kg	5.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130

Project Name: HOPE ST.
Project Number: 1124G-13-01
Lab Number: L1313489
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-03
Client ID: B-6 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/20/13 07:12
Analyst: PP
Percent Solids: 87%

Date Collected: 07/17/13 12:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.7	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.14	1
Chloroform	ND		ug/kg	1.2	0.29	1
Carbon tetrachloride	ND		ug/kg	0.77	0.16	1
1,2-Dichloropropane	ND		ug/kg	2.7	0.18	1
Dibromochloromethane	ND		ug/kg	0.77	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.24	1
Tetrachloroethene	6.3		ug/kg	0.77	0.11	1
Chlorobenzene	ND		ug/kg	0.77	0.27	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.09	1
1,2-Dichloroethane	ND		ug/kg	0.77	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	0.77	0.09	1
Bromodichloromethane	ND		ug/kg	0.77	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	0.77	0.09	1
cis-1,3-Dichloropropene	ND		ug/kg	0.77	0.10	1
1,1-Dichloropropene	ND		ug/kg	3.9	0.35	1
Bromoform	ND		ug/kg	3.1	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.77	0.13	1
Benzene	ND		ug/kg	0.77	0.09	1
Toluene	ND		ug/kg	1.2	0.09	1
Ethylbenzene	ND		ug/kg	0.77	0.11	1
Chloromethane	ND		ug/kg	3.9	0.60	1
Bromomethane	ND		ug/kg	1.5	0.26	1
Vinyl chloride	ND		ug/kg	1.5	0.11	1
Chloroethane	ND		ug/kg	1.5	0.24	1
1,1-Dichloroethene	ND		ug/kg	0.77	0.16	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.16	1
Trichloroethene	ND		ug/kg	0.77	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	3.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	3.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	3.9	0.19	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-03 Date Collected: 07/17/13 12:00

Client ID: B-6 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.5	0.08	1
p/m-Xylene	ND		ug/kg	1.5	0.25	1
o-Xylene	ND		ug/kg	1.5	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	0.77	0.12	1
Dibromomethane	ND		ug/kg	7.7	0.13	1
Styrene	ND		ug/kg	1.5	0.24	1
Dichlorodifluoromethane	ND		ug/kg	7.7	0.17	1
Acetone	9.8		ug/kg	7.7	2.4	1
Carbon disulfide	ND		ug/kg	7.7	1.5	1
2-Butanone	ND		ug/kg	7.7	0.27	1
Vinyl acetate	ND		ug/kg	7.7	0.37	1
4-Methyl-2-pentanone	ND		ug/kg	7.7	0.19	1
1,2,3-Trichloropropane	ND		ug/kg	7.7	0.17	1
2-Hexanone	ND		ug/kg	7.7	0.14	1
Bromochloromethane	ND		ug/kg	3.9	0.15	1
2,2-Dichloropropane	ND		ug/kg	3.9	0.17	1
1,2-Dibromoethane	ND		ug/kg	3.1	0.14	1
1,3-Dichloropropane	ND		ug/kg	3.9	0.13	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.77	0.24	1
Bromobenzene	ND		ug/kg	3.9	0.16	1
n-Butylbenzene	ND		ug/kg	0.77	0.15	1
sec-Butylbenzene	ND		ug/kg	0.77	0.16	1
tert-Butylbenzene	ND		ug/kg	3.9	0.43	1
o-Chlorotoluene	ND		ug/kg	3.9	0.12	1
p-Chlorotoluene	ND		ug/kg	3.9	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	0.61	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.33	1
Isopropylbenzene	ND		ug/kg	0.77	0.13	1
p-Isopropyltoluene	ND		ug/kg	0.77	0.15	1
Naphthalene	ND		ug/kg	3.9	0.59	1
Acrylonitrile	ND		ug/kg	7.7	0.18	1
n-Propylbenzene	ND		ug/kg	0.77	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.9	0.13	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.9	0.61	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.9	0.11	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.9	0.44	1
1,4-Dioxane	ND		ug/kg	77	13.	1
1,4-Diethylbenzene	ND		ug/kg	3.1	0.12	1
4-Ethyltoluene	ND		ug/kg	3.1	0.09	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-03 Date Collected: 07/17/13 12:00

Client ID: B-6 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.1	0.10	1
Ethyl ether	ND		ug/kg	3.9	0.20	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.9	0.35	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-04
Client ID: B-7 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/24/13 15:39
Analyst: BN
Percent Solids: 87%

Date Collected: 07/17/13 13:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	150	J	ug/kg	740	150	1
1,1-Dichloroethane	ND		ug/kg	110	13.	1
Chloroform	ND		ug/kg	110	28.	1
Carbon tetrachloride	ND		ug/kg	74	16.	1
1,2-Dichloropropane	ND		ug/kg	260	17.	1
Dibromochloromethane	ND		ug/kg	74	23.	1
1,1,2-Trichloroethane	ND		ug/kg	110	23.	1
Tetrachloroethene	1500		ug/kg	74	10.	1
Chlorobenzene	ND		ug/kg	74	26.	1
Trichlorofluoromethane	ND		ug/kg	370	9.0	1
1,2-Dichloroethane	ND		ug/kg	74	11.	1
1,1,1-Trichloroethane	ND		ug/kg	74	8.3	1
Bromodichloromethane	ND		ug/kg	74	17.	1
trans-1,3-Dichloropropene	ND		ug/kg	74	9.0	1
cis-1,3-Dichloropropene	ND		ug/kg	74	9.5	1
1,1-Dichloropropene	ND		ug/kg	370	34.	1
Bromoform	ND		ug/kg	300	31.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	74	13.	1
Benzene	ND		ug/kg	74	8.8	1
Toluene	ND		ug/kg	110	8.4	1
Ethylbenzene	ND		ug/kg	74	11.	1
Chloromethane	ND		ug/kg	370	58.	1
Bromomethane	ND		ug/kg	150	25.	1
Vinyl chloride	ND		ug/kg	150	10.	1
Chloroethane	ND		ug/kg	150	24.	1
1,1-Dichloroethene	ND		ug/kg	74	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	16.	1
Trichloroethene	ND		ug/kg	74	11.	1
1,2-Dichlorobenzene	ND		ug/kg	370	14.	1
1,3-Dichlorobenzene	ND		ug/kg	370	14.	1
1,4-Dichlorobenzene	ND		ug/kg	370	18.	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-04 Date Collected: 07/17/13 13:00

Client ID: B-7 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	150	7.8	1
p/m-Xylene	ND		ug/kg	150	24.	1
o-Xylene	ND		ug/kg	150	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	74	11.	1
Dibromomethane	ND		ug/kg	740	12.	1
Styrene	ND		ug/kg	150	23.	1
Dichlorodifluoromethane	ND		ug/kg	740	16.	1
Acetone	ND		ug/kg	740	230	1
Carbon disulfide	ND		ug/kg	740	150	1
2-Butanone	ND		ug/kg	740	26.	1
Vinyl acetate	ND		ug/kg	740	36.	1
4-Methyl-2-pentanone	ND		ug/kg	740	18.	1
1,2,3-Trichloropropane	ND		ug/kg	740	17.	1
2-Hexanone	ND		ug/kg	740	14.	1
Bromochloromethane	ND		ug/kg	370	15.	1
2,2-Dichloropropane	ND		ug/kg	370	17.	1
1,2-Dibromoethane	ND		ug/kg	300	13.	1
1,3-Dichloropropane	ND		ug/kg	370	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	74	24.	1
Bromobenzene	ND		ug/kg	370	16.	1
n-Butylbenzene	ND		ug/kg	74	15.	1
sec-Butylbenzene	ND		ug/kg	74	15.	1
tert-Butylbenzene	ND		ug/kg	370	42.	1
o-Chlorotoluene	ND		ug/kg	370	12.	1
p-Chlorotoluene	ND		ug/kg	370	11.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	370	59.	1
Hexachlorobutadiene	ND		ug/kg	370	32.	1
Isopropylbenzene	ND		ug/kg	74	12.	1
p-Isopropyltoluene	ND		ug/kg	74	14.	1
Naphthalene	ND		ug/kg	370	57.	1
Acrylonitrile	ND		ug/kg	740	18.	1
n-Propylbenzene	ND		ug/kg	74	9.4	1
1,2,3-Trichlorobenzene	ND		ug/kg	370	12.	1
1,2,4-Trichlorobenzene	ND		ug/kg	370	59.	1
1,3,5-Trimethylbenzene	ND		ug/kg	370	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	370	43.	1
1,4-Dioxane	ND		ug/kg	7400	1300	1
1,4-Diethylbenzene	ND		ug/kg	300	12.	1
4-Ethyltoluene	ND		ug/kg	300	8.7	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-04 Date Collected: 07/17/13 13:00

Client ID: B-7 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	300	9.7	1
Ethyl ether	ND		ug/kg	370	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	370	33.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-05
Client ID: B-8 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/24/13 16:07
Analyst: BN
Percent Solids: 85%

Date Collected: 07/17/13 14:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	190	J	ug/kg	780	160	1
1,1-Dichloroethane	ND		ug/kg	120	14.	1
Chloroform	ND		ug/kg	120	29.	1
Carbon tetrachloride	ND		ug/kg	78	16.	1
1,2-Dichloropropane	ND		ug/kg	270	18.	1
Dibromochloromethane	ND		ug/kg	78	24.	1
1,1,2-Trichloroethane	ND		ug/kg	120	24.	1
Tetrachloroethene	1100		ug/kg	78	11.	1
Chlorobenzene	ND		ug/kg	78	27.	1
Trichlorofluoromethane	ND		ug/kg	390	9.5	1
1,2-Dichloroethane	ND		ug/kg	78	11.	1
1,1,1-Trichloroethane	ND		ug/kg	78	8.7	1
Bromodichloromethane	ND		ug/kg	78	18.	1
trans-1,3-Dichloropropene	ND		ug/kg	78	9.5	1
cis-1,3-Dichloropropene	ND		ug/kg	78	10.	1
1,1-Dichloropropene	ND		ug/kg	390	36.	1
Bromoform	ND		ug/kg	310	32.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	78	13.	1
Benzene	ND		ug/kg	78	9.3	1
Toluene	ND		ug/kg	120	8.8	1
Ethylbenzene	ND		ug/kg	78	12.	1
Chloromethane	ND		ug/kg	390	62.	1
Bromomethane	ND		ug/kg	160	26.	1
Vinyl chloride	ND		ug/kg	160	11.	1
Chloroethane	ND		ug/kg	160	25.	1
1,1-Dichloroethene	ND		ug/kg	78	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	120	17.	1
Trichloroethene	ND		ug/kg	78	12.	1
1,2-Dichlorobenzene	ND		ug/kg	390	14.	1
1,3-Dichlorobenzene	ND		ug/kg	390	14.	1
1,4-Dichlorobenzene	ND		ug/kg	390	19.	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-05 Date Collected: 07/17/13 14:00

Client ID: B-8 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	160	8.2	1
p/m-Xylene	ND		ug/kg	160	25.	1
o-Xylene	ND		ug/kg	160	21.	1
cis-1,2-Dichloroethene	ND		ug/kg	78	12.	1
Dibromomethane	ND		ug/kg	780	13.	1
Styrene	ND		ug/kg	160	24.	1
Dichlorodifluoromethane	ND		ug/kg	780	17.	1
Acetone	ND		ug/kg	780	240	1
Carbon disulfide	ND		ug/kg	780	160	1
2-Butanone	ND		ug/kg	780	28.	1
Vinyl acetate	ND		ug/kg	780	38.	1
4-Methyl-2-pentanone	ND		ug/kg	780	19.	1
1,2,3-Trichloropropane	ND		ug/kg	780	18.	1
2-Hexanone	ND		ug/kg	780	15.	1
Bromochloromethane	ND		ug/kg	390	15.	1
2,2-Dichloropropane	ND		ug/kg	390	18.	1
1,2-Dibromoethane	ND		ug/kg	310	14.	1
1,3-Dichloropropane	ND		ug/kg	390	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	78	25.	1
Bromobenzene	ND		ug/kg	390	16.	1
n-Butylbenzene	ND		ug/kg	78	16.	1
sec-Butylbenzene	ND		ug/kg	78	16.	1
tert-Butylbenzene	ND		ug/kg	390	44.	1
o-Chlorotoluene	ND		ug/kg	390	12.	1
p-Chlorotoluene	ND		ug/kg	390	12.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	390	62.	1
Hexachlorobutadiene	ND		ug/kg	390	33.	1
Isopropylbenzene	ND		ug/kg	78	13.	1
p-Isopropyltoluene	ND		ug/kg	78	15.	1
Naphthalene	100	J	ug/kg	390	60.	1
Acrylonitrile	ND		ug/kg	780	19.	1
n-Propylbenzene	ND		ug/kg	78	9.9	1
1,2,3-Trichlorobenzene	ND		ug/kg	390	13.	1
1,2,4-Trichlorobenzene	ND		ug/kg	390	62.	1
1,3,5-Trimethylbenzene	ND		ug/kg	390	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	390	45.	1
1,4-Dioxane	ND		ug/kg	7800	1400	1
1,4-Diethylbenzene	ND		ug/kg	310	12.	1
4-Ethyltoluene	ND		ug/kg	310	9.2	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-05 Date Collected: 07/17/13 14:00

Client ID: B-8 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	310	10.	1
Ethyl ether	ND		ug/kg	390	21.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	390	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/19/13 21:19
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG623073-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/19/13 21:19
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG623073-3					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/19/13 21:19
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG623073-3					
Acrylonitrile	ND		ug/kg	10	0.24
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	0.32	J	ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	0.73	J	ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/19/13 21:19
Analyst: PP

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG623073-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/23/13 09:02
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG623814-3					
Methylene chloride	ND		ug/kg	500	100
1,1-Dichloroethane	ND		ug/kg	75	8.9
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	15.
2-Chloroethylvinyl ether	ND		ug/kg	1000	31.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	6.1
1,2-Dichloroethane	ND		ug/kg	50	7.3
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	11.
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	6.4
1,1-Dichloropropene	ND		ug/kg	250	23.
Bromoform	ND		ug/kg	200	21.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	8.5
Benzene	ND		ug/kg	50	5.9
Toluene	13	J	ug/kg	75	5.6
Ethylbenzene	ND		ug/kg	50	7.4
Chloromethane	ND		ug/kg	250	39.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	7.1
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	10.
trans-1,2-Dichloroethene	ND		ug/kg	75	10.
Trichloroethene	ND		ug/kg	50	7.6
1,2-Dichlorobenzene	ND		ug/kg	250	9.2
1,3-Dichlorobenzene	ND		ug/kg	250	9.2

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/23/13 09:02
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG623814-3					
1,4-Dichlorobenzene	ND		ug/kg	250	12.
Methyl tert butyl ether	ND		ug/kg	100	5.2
p/m-Xylene	ND		ug/kg	100	16.
o-Xylene	ND		ug/kg	100	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.5
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	15.
Dichlorodifluoromethane	ND		ug/kg	500	11.
Acetone	ND		ug/kg	500	160
Carbon disulfide	ND		ug/kg	500	100
2-Butanone	ND		ug/kg	500	18.
Vinyl acetate	ND		ug/kg	500	24.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	11.
2-Hexanone	ND		ug/kg	500	9.4
Bromochloromethane	ND		ug/kg	250	9.8
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.9
1,3-Dichloropropane	ND		ug/kg	250	8.6
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	9.9
sec-Butylbenzene	ND		ug/kg	50	10.
tert-Butylbenzene	ND		ug/kg	250	28.
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	7.7
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	39.
Hexachlorobutadiene	ND		ug/kg	250	21.
Isopropylbenzene	ND		ug/kg	50	8.4
p-Isopropyltoluene	ND		ug/kg	50	9.6
Naphthalene	ND		ug/kg	250	38.

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/23/13 09:02
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG623814-3					
Acrylonitrile	ND		ug/kg	500	12.
Isopropyl Ether	ND		ug/kg	200	7.0
tert-Butyl Alcohol	ND		ug/kg	3000	45.
n-Propylbenzene	ND		ug/kg	50	6.3
1,2,3-Trichlorobenzene	ND		ug/kg	250	8.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	39.
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	29.
Methyl Acetate	ND		ug/kg	1000	38.
Ethyl Acetate	ND		ug/kg	1000	41.
Acrolein	ND		ug/kg	1200	460
Cyclohexane	ND		ug/kg	1000	54.
1,4-Dioxane	ND		ug/kg	5000	870
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	1000	14.
1,4-Diethylbenzene	ND		ug/kg	200	8.0
4-Ethyltoluene	ND		ug/kg	200	5.8
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Tetrahydrofuran	ND		ug/kg	1000	19.
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	22.
Methyl cyclohexane	ND		ug/kg	200	63.
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	21.
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	29.

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/23/13 09:02
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG623814-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/24/13 08:37
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04-05 Batch: WG624154-3					
Methylene chloride	ND		ug/kg	500	100
1,1-Dichloroethane	ND		ug/kg	75	8.9
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	15.
2-Chloroethylvinyl ether	ND		ug/kg	1000	31.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	6.1
1,2-Dichloroethane	ND		ug/kg	50	7.3
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	11.
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	6.4
1,1-Dichloropropene	ND		ug/kg	250	23.
Bromoform	ND		ug/kg	200	21.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	8.5
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	5.6
Ethylbenzene	ND		ug/kg	50	7.4
Chloromethane	ND		ug/kg	250	39.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	7.1
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	10.
trans-1,2-Dichloroethene	ND		ug/kg	75	10.
Trichloroethene	ND		ug/kg	50	7.6
1,2-Dichlorobenzene	ND		ug/kg	250	9.2
1,3-Dichlorobenzene	ND		ug/kg	250	9.2

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/24/13 08:37
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04-05 Batch: WG624154-3					
1,4-Dichlorobenzene	ND		ug/kg	250	12.
Methyl tert butyl ether	ND		ug/kg	100	5.2
p/m-Xylene	ND		ug/kg	100	16.
o-Xylene	ND		ug/kg	100	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	7.5
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	15.
Dichlorodifluoromethane	ND		ug/kg	500	11.
Acetone	ND		ug/kg	500	160
Carbon disulfide	ND		ug/kg	500	100
2-Butanone	ND		ug/kg	500	18.
Vinyl acetate	ND		ug/kg	500	24.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	11.
2-Hexanone	ND		ug/kg	500	9.4
Bromochloromethane	ND		ug/kg	250	9.8
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.9
1,3-Dichloropropane	ND		ug/kg	250	8.6
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	9.9
sec-Butylbenzene	ND		ug/kg	50	10.
tert-Butylbenzene	ND		ug/kg	250	28.
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	7.7
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	39.
Hexachlorobutadiene	ND		ug/kg	250	21.
Isopropylbenzene	ND		ug/kg	50	8.4
p-Isopropyltoluene	ND		ug/kg	50	9.6
Naphthalene	ND		ug/kg	250	38.

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/24/13 08:37
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04-05 Batch: WG624154-3					
Acrylonitrile	ND		ug/kg	500	12.
Isopropyl Ether	ND		ug/kg	200	7.0
tert-Butyl Alcohol	ND		ug/kg	3000	45.
n-Propylbenzene	ND		ug/kg	50	6.3
1,2,3-Trichlorobenzene	ND		ug/kg	250	8.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	39.
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	29.
Methyl Acetate	ND		ug/kg	1000	38.
Ethyl Acetate	ND		ug/kg	1000	41.
Acrolein	ND		ug/kg	1200	460
Cyclohexane	ND		ug/kg	1000	54.
1,4-Dioxane	ND		ug/kg	5000	870
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	1000	14.
1,4-Diethylbenzene	ND		ug/kg	200	8.0
4-Ethyltoluene	ND		ug/kg	200	5.8
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Tetrahydrofuran	ND		ug/kg	1000	19.
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	22.
Methyl cyclohexane	ND		ug/kg	200	63.
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	21.
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	29.

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/24/13 08:37
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04-05 Batch: WG624154-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG623073-1 WG623073-2								
Methylene chloride	95		83		70-130	13		30
1,1-Dichloroethane	103		87		70-130	17		30
Chloroform	103		89		70-130	15		30
Carbon tetrachloride	106		82		70-130	26		30
1,2-Dichloropropane	103		91		70-130	12		30
Dibromochloromethane	93		86		70-130	8		30
2-Chloroethylvinyl ether	103		91			12		30
1,1,2-Trichloroethane	92		86		70-130	7		30
Tetrachloroethene	97		76		70-130	24		30
Chlorobenzene	94		80		70-130	16		30
Trichlorofluoromethane	100		75		70-139	29		30
1,2-Dichloroethane	98		91		70-130	7		30
1,1,1-Trichloroethane	104		82		70-130	24		30
Bromodichloromethane	101		91		70-130	10		30
trans-1,3-Dichloropropene	92		85		70-130	8		30
cis-1,3-Dichloropropene	106		94		70-130	12		30
1,1-Dichloropropene	105		82		70-130	25		30
Bromoform	88		83		70-130	6		30
1,1,2,2-Tetrachloroethane	85		81		70-130	5		30
Benzene	105		88		70-130	18		30
Toluene	91		76		70-130	18		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG623073-1 WG623073-2								
Ethylbenzene	94		77		70-130	20		30
Chloromethane	97		78		52-130	22		30
Bromomethane	106		90		57-147	16		30
Vinyl chloride	99		76		67-130	26		30
Chloroethane	100		81		50-151	21		30
1,1-Dichloroethene	108		83		65-135	26		30
trans-1,2-Dichloroethene	107		86		70-130	22		30
Trichloroethene	105		85		70-130	21		30
1,2-Dichlorobenzene	89		79		70-130	12		30
1,3-Dichlorobenzene	89		78		70-130	13		30
1,4-Dichlorobenzene	88		77		70-130	13		30
Methyl tert butyl ether	107		101		66-130	6		30
p/m-Xylene	96		80		70-130	18		30
o-Xylene	98		83		70-130	17		30
cis-1,2-Dichloroethene	107		92		70-130	15		30
Dibromomethane	103		97		70-130	6		30
Styrene	98		85		70-130	14		30
Dichlorodifluoromethane	89		66		30-146	30		30
Acetone	56		**51**	Q	54-140	9		30
Carbon disulfide	102		80		59-130	24		30
2-Butanone	85		81		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG623073-1 WG623073-2								
Vinyl acetate	103		99		70-130	4		30
4-Methyl-2-pentanone	104		100		70-130	4		30
1,2,3-Trichloropropane	84		80		68-130	5		30
2-Hexanone	80		77		70-130	4		30
Bromochloromethane	110		99		70-130	11		30
2,2-Dichloropropane	103		81		70-130	24		30
1,2-Dibromoethane	95		90		70-130	5		30
1,3-Dichloropropane	91		85		69-130	7		30
1,1,1,2-Tetrachloroethane	94		84		70-130	11		30
Bromobenzene	87		77		70-130	12		30
n-Butylbenzene	90		71		70-130	24		30
sec-Butylbenzene	92		72		70-130	24		30
tert-Butylbenzene	92		74		70-130	22		30
o-Chlorotoluene	90		76		70-130	17		30
p-Chlorotoluene	89		75		70-130	17		30
1,2-Dibromo-3-chloropropane	72		71		68-130	1		30
Hexachlorobutadiene	91		72		67-130	23		30
Isopropylbenzene	91		74		70-130	21		30
p-Isopropyltoluene	94		74		70-130	24		30
Naphthalene	95		90		70-130	5		30
Acrylonitrile	106		105		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG623073-1 WG623073-2								
Isopropyl Ether	104		93		66-130	11		30
tert-Butyl Alcohol	**134**	Q	**133**	Q	70-130	1		30
n-Propylbenzene	88		71		70-130	21		30
1,2,3-Trichlorobenzene	91		83		70-130	9		30
1,2,4-Trichlorobenzene	91		81		70-130	12		30
1,3,5-Trimethylbenzene	91		75		70-130	19		30
1,2,4-Trimethylbenzene	93		78		70-130	18		30
Methyl Acetate	102		99		51-146	3		30
Ethyl Acetate	105		104		70-130	1		30
Acrolein	105		102		70-130	3		30
Cyclohexane	105		78		59-142	30		30
1,4-Dioxane	115		111		65-136	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	107		79		50-139	30		30
1,4-Diethylbenzene	94		75		70-130	22		30
4-Ethyltoluene	90		74		70-130	20		30
1,2,4,5-Tetramethylbenzene	86		74		70-130	15		30
Tetrahydrofuran	106		103		66-130	3		30
Ethyl ether	98		92		67-130	6		30
trans-1,4-Dichloro-2-butene	85		81		70-130	5		30
Methyl cyclohexane	107		79		70-130	30		30
Ethyl-Tert-Butyl-Ether	106		97		70-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG623073-1 WG623073-2								
Tertiary-Amyl Methyl Ether	107		100		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		91		70-130
Toluene-d8	93		93		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	98		99		70-130

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG623814-1 WG623814-2								
Methylene chloride	92		92		70-130	0		30
1,1-Dichloroethane	91		91		70-130	0		30
Chloroform	93		93		70-130	0		30
Carbon tetrachloride	95		92		70-130	3		30
1,2-Dichloropropane	93		94		70-130	1		30
Dibromochloromethane	90		92		70-130	2		30
2-Chloroethylvinyl ether	0		0			NC		30
1,1,2-Trichloroethane	90		91		70-130	1		30
Tetrachloroethene	90		86		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG623814-1 WG623814-2								
Chlorobenzene	88		87		70-130	1		30
Trichlorofluoromethane	92		88		70-139	4		30
1,2-Dichloroethane	94		96		70-130	2		30
1,1,1-Trichloroethane	94		90		70-130	4		30
Bromodichloromethane	95		95		70-130	0		30
trans-1,3-Dichloropropene	91		92		70-130	1		30
cis-1,3-Dichloropropene	95		96		70-130	1		30
1,1-Dichloropropene	92		89		70-130	3		30
Bromoform	83		86		70-130	4		30
1,1,2,2-Tetrachloroethane	84		88		70-130	5		30
Benzene	92		91		70-130	1		30
Toluene	84		84		70-130	0		30
Ethylbenzene	87		86		70-130	1		30
Chloromethane	86		84		52-130	2		30
Bromomethane	94		93		57-147	1		30
Vinyl chloride	82		78		67-130	5		30
Chloroethane	82		80		50-151	2		30
1,1-Dichloroethene	92		87		65-135	6		30
trans-1,2-Dichloroethene	90		89		70-130	1		30
Trichloroethene	93		91		70-130	2		30
1,2-Dichlorobenzene	88		88		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG623814-1 WG623814-2								
1,3-Dichlorobenzene	87		87		70-130	0		30
1,4-Dichlorobenzene	87		87		70-130	0		30
Methyl tert butyl ether	94		96		66-130	2		30
p/m-Xylene	89		88		70-130	1		30
o-Xylene	89		88		70-130	1		30
cis-1,2-Dichloroethene	94		93		70-130	1		30
Dibromomethane	97		100		70-130	3		30
Styrene	89		88		70-130	1		30
Dichlorodifluoromethane	98		93		30-146	5		30
Acetone	129		115		54-140	11		30
Carbon disulfide	88		85		59-130	3		30
2-Butanone	110		109		70-130	1		30
Vinyl acetate	93		96		70-130	3		30
4-Methyl-2-pentanone	100		104		70-130	4		30
1,2,3-Trichloropropane	86		88		68-130	2		30
2-Hexanone	92		96		70-130	4		30
Bromochloromethane	97		99		70-130	2		30
2,2-Dichloropropane	95		92		70-130	3		30
1,2-Dibromoethane	89		91		70-130	2		30
1,3-Dichloropropane	89		91		69-130	2		30
1,1,1,2-Tetrachloroethane	90		90		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG623814-1 WG623814-2								
Bromobenzene	86		86		70-130	0		30
n-Butylbenzene	86		83		70-130	4		30
sec-Butylbenzene	86		84		70-130	2		30
tert-Butylbenzene	88		85		70-130	3		30
o-Chlorotoluene	86		84		70-130	2		30
p-Chlorotoluene	87		86		70-130	1		30
1,2-Dibromo-3-chloropropane	93		95		68-130	2		30
Hexachlorobutadiene	89		83		67-130	7		30
Isopropylbenzene	88		87		70-130	1		30
p-Isopropyltoluene	87		84		70-130	4		30
Naphthalene	86		88		70-130	2		30
Acrylonitrile	96		99		70-130	3		30
Isopropyl Ether	93		94		66-130	1		30
tert-Butyl Alcohol	92		98		70-130	6		30
n-Propylbenzene	85		82		70-130	4		30
1,2,3-Trichlorobenzene	86		86		70-130	0		30
1,2,4-Trichlorobenzene	89		87		70-130	2		30
1,3,5-Trimethylbenzene	87		85		70-130	2		30
1,2,4-Trimethylbenzene	88		87		70-130	1		30
Methyl Acetate	90		93		51-146	3		30
Ethyl Acetate	101		102		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG623814-1 WG623814-2								
Acrolein	88		92		70-130	4		30
Cyclohexane	99		95		59-142	4		30
1,4-Dioxane	102		105		65-136	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	101		95		50-139	6		30
1,4-Diethylbenzene	99		96		70-130	3		30
4-Ethyltoluene	98		96		70-130	2		30
1,2,4,5-Tetramethylbenzene	100		98		70-130	2		30
Tetrahydrofuran	94		118		66-130	23		30
Ethyl ether	83		86		67-130	4		30
trans-1,4-Dichloro-2-butene	87		89		70-130	2		30
Methyl cyclohexane	103		98		70-130	5		30
Ethyl-Tert-Butyl-Ether	92		95		70-130	3		30
Tertiary-Amyl Methyl Ether	94		97		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	102		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-05 Batch: WG624154-1 WG624154-2								
Methylene chloride	105		102		70-130	3		30
1,1-Dichloroethane	102		96		70-130	6		30
Chloroform	103		97		70-130	6		30
Carbon tetrachloride	107		98		70-130	9		30
1,2-Dichloropropane	103		97		70-130	6		30
Dibromochloromethane	93		89		70-130	4		30
2-Chloroethylvinyl ether	0		0			NC		30
1,1,2-Trichloroethane	93		88		70-130	6		30
Tetrachloroethene	100		89		70-130	12		30
Chlorobenzene	95		88		70-130	8		30
Trichlorofluoromethane	108		95		70-139	13		30
1,2-Dichloroethane	99		95		70-130	4		30
1,1,1-Trichloroethane	105		96		70-130	9		30
Bromodichloromethane	101		97		70-130	4		30
trans-1,3-Dichloropropene	94		89		70-130	5		30
cis-1,3-Dichloropropene	103		98		70-130	5		30
1,1-Dichloropropene	106		96		70-130	10		30
Bromoform	84		81		70-130	4		30
1,1,2,2-Tetrachloroethane	85		81		70-130	5		30
Benzene	103		96		70-130	7		30
Toluene	92		85		70-130	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-05 Batch: WG624154-1 WG624154-2								
Ethylbenzene	96		89		70-130	8		30
Chloromethane	100		92		52-130	8		30
Bromomethane	114		105		57-147	8		30
Vinyl chloride	99		88		67-130	12		30
Chloroethane	100		91		50-151	9		30
1,1-Dichloroethene	105		94		65-135	11		30
trans-1,2-Dichloroethene	103		95		70-130	8		30
Trichloroethene	104		96		70-130	8		30
1,2-Dichlorobenzene	92		88		70-130	4		30
1,3-Dichlorobenzene	94		88		70-130	7		30
1,4-Dichlorobenzene	94		89		70-130	5		30
Methyl tert butyl ether	96		92		66-130	4		30
p/m-Xylene	98		90		70-130	9		30
o-Xylene	97		90		70-130	7		30
cis-1,2-Dichloroethene	103		97		70-130	6		30
Dibromomethane	102		98		70-130	4		30
Styrene	96		89		70-130	8		30
Dichlorodifluoromethane	112		97		30-146	14		30
Acetone	**147**	Q	123		54-140	18		30
Carbon disulfide	103		93		59-130	10		30
2-Butanone	124		107		70-130	15		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-05 Batch: WG624154-1 WG624154-2								
Vinyl acetate	98		93		70-130	5		30
4-Methyl-2-pentanone	99		95		70-130	4		30
1,2,3-Trichloropropane	87		82		68-130	6		30
2-Hexanone	98		88		70-130	11		30
Bromochloromethane	103		99		70-130	4		30
2,2-Dichloropropane	108		99		70-130	9		30
1,2-Dibromoethane	90		86		70-130	5		30
1,3-Dichloropropane	93		88		69-130	6		30
1,1,1,2-Tetrachloroethane	96		90		70-130	6		30
Bromobenzene	90		86		70-130	5		30
n-Butylbenzene	97		90		70-130	7		30
sec-Butylbenzene	96		88		70-130	9		30
tert-Butylbenzene	97		89		70-130	9		30
o-Chlorotoluene	94		88		70-130	7		30
p-Chlorotoluene	95		89		70-130	7		30
1,2-Dibromo-3-chloropropane	93		90		68-130	3		30
Hexachlorobutadiene	96		89		67-130	8		30
Isopropylbenzene	98		90		70-130	9		30
p-Isopropyltoluene	97		89		70-130	9		30
Naphthalene	84		82		70-130	2		30
Acrylonitrile	99		94		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-05 Batch: WG624154-1 WG624154-2								
Isopropyl Ether	102		96		66-130	6		30
tert-Butyl Alcohol	91		85		70-130	7		30
n-Propylbenzene	94		87		70-130	8		30
1,2,3-Trichlorobenzene	88		86		70-130	2		30
1,2,4-Trichlorobenzene	93		88		70-130	6		30
1,3,5-Trimethylbenzene	96		88		70-130	9		30
1,2,4-Trimethylbenzene	95		89		70-130	7		30
Methyl Acetate	92		87		51-146	6		30
Ethyl Acetate	99		95		70-130	4		30
Acrolein	**64**	Q	71		70-130	10		30
Cyclohexane	118		104		59-142	13		30
1,4-Dioxane	103		99		65-136	4		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	116		102		50-139	13		30
1,4-Diethylbenzene	111		103		70-130	7		30
4-Ethyltoluene	109		103		70-130	6		30
1,2,4,5-Tetramethylbenzene	108		104		70-130	4		30
Tetrahydrofuran	94		92		66-130	2		30
Ethyl ether	92		87		67-130	6		30
trans-1,4-Dichloro-2-butene	87		84		70-130	4		30
Methyl cyclohexane	121		107		70-130	12		30
Ethyl-Tert-Butyl-Ether	98		94		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-05 Batch: WG624154-1 WG624154-2								
Tertiary-Amyl Methyl Ether	99		94		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	102		101		70-130

SEMIVOLATILES

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-01	Date Collected:	07/17/13 10:00
Client ID:	B-1 (1-2)	Date Received:	07/18/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	07/26/13 16:34
Analytical Date:	07/29/13 11:18		
Analyst:	RC		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	40.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	63.	1
Hexachlorobenzene	ND		ug/kg	120	36.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	54.	1
2-Chloronaphthalene	ND		ug/kg	190	63.	1
1,2-Dichlorobenzene	ND		ug/kg	190	64.	1
1,3-Dichlorobenzene	ND		ug/kg	190	61.	1
1,4-Dichlorobenzene	ND		ug/kg	190	59.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	42.	1
2,6-Dinitrotoluene	ND		ug/kg	190	50.	1
Fluoranthene	200		ug/kg	120	36.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	59.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	44.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	68.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	58.	1
Hexachlorobutadiene	ND		ug/kg	190	54.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	120	1
Hexachloroethane	ND		ug/kg	150	35.	1
Isophorone	ND		ug/kg	170	51.	1
Naphthalene	ND		ug/kg	190	64.	1
Nitrobenzene	ND		ug/kg	170	46.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	41.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	58.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	51.	1
Butyl benzyl phthalate	ND		ug/kg	190	38.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	48.	1
Diethyl phthalate	ND		ug/kg	190	41.	1
Dimethyl phthalate	ND		ug/kg	190	49.	1
Benzo(a)anthracene	89	J	ug/kg	120	38.	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-01 Date Collected: 07/17/13 10:00

Client ID: B-1 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	80	J	ug/kg	150	47.	1
Benzo(b)fluoranthene	97	J	ug/kg	120	39.	1
Benzo(k)fluoranthene	48	J	ug/kg	120	37.	1
Chrysene	110	J	ug/kg	120	38.	1
Acenaphthylene	ND		ug/kg	150	36.	1
Anthracene	ND		ug/kg	120	32.	1
Benzo(ghi)perylene	53	J	ug/kg	150	40.	1
Fluorene	ND		ug/kg	190	55.	1
Phenanthrene	120		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	37.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	43.	1
Pyrene	180		ug/kg	120	38.	1
Biphenyl	ND		ug/kg	440	64.	1
4-Chloroaniline	ND		ug/kg	190	51.	1
2-Nitroaniline	ND		ug/kg	190	54.	1
3-Nitroaniline	ND		ug/kg	190	53.	1
4-Nitroaniline	ND		ug/kg	190	52.	1
Dibenzofuran	ND		ug/kg	190	64.	1
2-Methylnaphthalene	ND		ug/kg	230	62.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	60.	1
Acetophenone	ND		ug/kg	190	60.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	56.	1
2-Chlorophenol	ND		ug/kg	190	58.	1
2,4-Dichlorophenol	ND		ug/kg	170	63.	1
2,4-Dimethylphenol	ND		ug/kg	190	58.	1
2-Nitrophenol	ND		ug/kg	420	60.	1
4-Nitrophenol	ND		ug/kg	270	63.	1
2,4-Dinitrophenol	ND		ug/kg	930	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	71.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	57.	1
2-Methylphenol	ND		ug/kg	190	62.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	63.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	63.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	60.	1
Carbazole	ND		ug/kg	190	42.	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-01 Date Collected: 07/17/13 10:00

Client ID: B-1 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	65		0-136
4-Terphenyl-d14	81		18-120

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-02	D2	Date Collected:	07/17/13 11:00
Client ID:	B-5 (1-2)		Date Received:	07/18/13
Sample Location:	BROOKLYN, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	07/20/13 09:12
Analytical Date:	07/26/13 02:09			
Analyst:	RC			
Percent Solids:	86%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	69000		ug/kg	2300	700	20
Phenanthrene	69000		ug/kg	2300	740	20

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-02	D	Date Collected:	07/17/13 11:00
Client ID:	B-5 (1-2)		Date Received:	07/18/13
Sample Location:	BROOKLYN, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	07/20/13 09:12
Analytical Date:	07/25/13 14:48			
Analyst:	RC			
Percent Solids:	86%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	8000		ug/kg	1500	390	10
1,2,4-Trichlorobenzene	ND		ug/kg	1900	620	10
Hexachlorobenzene	ND		ug/kg	1100	350	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	530	10
2-Chloronaphthalene	ND		ug/kg	1900	620	10
1,2-Dichlorobenzene	ND		ug/kg	1900	620	10
1,3-Dichlorobenzene	ND		ug/kg	1900	600	10
1,4-Dichlorobenzene	ND		ug/kg	1900	580	10
3,3'-Dichlorobenzidine	ND		ug/kg	1900	500	10
2,4-Dinitrotoluene	ND		ug/kg	1900	410	10
2,6-Dinitrotoluene	ND		ug/kg	1900	490	10
Fluoranthene	86000	E	ug/kg	1100	350	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1900	580	10
4-Bromophenyl phenyl ether	ND		ug/kg	1900	440	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2300	670	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	580	10
Hexachlorobutadiene	ND		ug/kg	1900	540	10
Hexachlorocyclopentadiene	ND		ug/kg	5400	1200	10
Hexachloroethane	ND		ug/kg	1500	340	10
Isophorone	ND		ug/kg	1700	500	10
Naphthalene	2400		ug/kg	1900	630	10
Nitrobenzene	ND		ug/kg	1700	450	10
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1500	400	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1900	560	10
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	1900	500	10
Butyl benzyl phthalate	ND		ug/kg	1900	370	10
Di-n-butylphthalate	ND		ug/kg	1900	370	10
Di-n-octylphthalate	ND		ug/kg	1900	470	10
Diethyl phthalate	ND		ug/kg	1900	400	10
Dimethyl phthalate	ND		ug/kg	1900	480	10
Benzo(a)anthracene	32000		ug/kg	1100	370	10

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-02 D Date Collected: 07/17/13 11:00

Client ID: B-5 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	26000		ug/kg	1500	460	10
Benzo(b)fluoranthene	29000		ug/kg	1100	380	10
Benzo(k)fluoranthene	14000		ug/kg	1100	360	10
Chrysene	34000		ug/kg	1100	370	10
Acenaphthylene	980	J	ug/kg	1500	360	10
Anthracene	16000		ug/kg	1100	320	10
Benzo(ghi)perylene	12000		ug/kg	1500	400	10
Fluorene	5700		ug/kg	1900	540	10
Phenanthrene	82000	E	ug/kg	1100	370	10
Dibenzo(a,h)anthracene	4100		ug/kg	1100	370	10
Indeno(1,2,3-cd)Pyrene	13000		ug/kg	1500	420	10
Pyrene	74000		ug/kg	1100	370	10
Biphenyl	ND		ug/kg	4300	630	10
4-Chloroaniline	ND		ug/kg	1900	500	10
2-Nitroaniline	ND		ug/kg	1900	540	10
3-Nitroaniline	ND		ug/kg	1900	520	10
4-Nitroaniline	ND		ug/kg	1900	510	10
Dibenzofuran	4700		ug/kg	1900	630	10
2-Methylnaphthalene	1500	J	ug/kg	2300	610	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1900	590	10
Acetophenone	ND		ug/kg	1900	590	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	360	10
P-Chloro-M-Cresol	ND		ug/kg	1900	550	10
2-Chlorophenol	ND		ug/kg	1900	570	10
2,4-Dichlorophenol	ND		ug/kg	1700	620	10
2,4-Dimethylphenol	ND		ug/kg	1900	560	10
2-Nitrophenol	ND		ug/kg	4100	590	10
4-Nitrophenol	ND		ug/kg	2600	620	10
2,4-Dinitrophenol	ND		ug/kg	9100	2600	10
4,6-Dinitro-o-cresol	ND		ug/kg	4900	700	10
Pentachlorophenol	ND		ug/kg	1500	410	10
Phenol	ND		ug/kg	1900	560	10
2-Methylphenol	ND		ug/kg	1900	610	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2700	620	10
2,4,5-Trichlorophenol	ND		ug/kg	1900	620	10
Benzoic Acid	ND		ug/kg	6200	1900	10
Benzyl Alcohol	ND		ug/kg	1900	580	10
Carbazole	6600		ug/kg	1900	410	10

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-02 D
Client ID: B-5 (1-2)
Sample Location: BROOKLYN, NY

Date Collected: 07/17/13 11:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		25-120
Phenol-d6	47		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	89		0-136
4-Terphenyl-d14	84		18-120

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-03	Date Collected:	07/17/13 12:00
Client ID:	B-6 (1-2)	Date Received:	07/18/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	07/20/13 09:12
Analytical Date:	07/25/13 15:15		
Analyst:	RC		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	39.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	62.	1
Hexachlorobenzene	ND		ug/kg	110	35.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	53.	1
2-Chloronaphthalene	ND		ug/kg	190	62.	1
1,2-Dichlorobenzene	ND		ug/kg	190	62.	1
1,3-Dichlorobenzene	ND		ug/kg	190	60.	1
1,4-Dichlorobenzene	ND		ug/kg	190	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	41.	1
2,6-Dinitrotoluene	ND		ug/kg	190	48.	1
Fluoranthene	87	J	ug/kg	110	35.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	57.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	43.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	66.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	57.	1
Hexachlorobutadiene	ND		ug/kg	190	53.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	50.	1
Naphthalene	ND		ug/kg	190	63.	1
Nitrobenzene	ND		ug/kg	170	45.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	40.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	56.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	190	50.	1
Butyl benzyl phthalate	ND		ug/kg	190	37.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	46.	1
Diethyl phthalate	ND		ug/kg	190	40.	1
Dimethyl phthalate	ND		ug/kg	190	48.	1
Benzo(a)anthracene	52	J	ug/kg	110	37.	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-03 Date Collected: 07/17/13 12:00

Client ID: B-6 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	66	J	ug/kg	110	38.	1
Benzo(k)fluoranthene	ND		ug/kg	110	36.	1
Chrysene	52	J	ug/kg	110	37.	1
Acenaphthylene	ND		ug/kg	150	35.	1
Anthracene	ND		ug/kg	110	31.	1
Benzo(ghi)perylene	ND		ug/kg	150	39.	1
Fluorene	ND		ug/kg	190	54.	1
Phenanthrene	69	J	ug/kg	110	37.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	150	42.	1
Pyrene	78	J	ug/kg	110	37.	1
Biphenyl	ND		ug/kg	430	62.	1
4-Chloroaniline	ND		ug/kg	190	50.	1
2-Nitroaniline	ND		ug/kg	190	53.	1
3-Nitroaniline	ND		ug/kg	190	52.	1
4-Nitroaniline	ND		ug/kg	190	51.	1
Dibenzofuran	ND		ug/kg	190	63.	1
2-Methylnaphthalene	ND		ug/kg	230	60.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	58.	1
Acetophenone	ND		ug/kg	190	58.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
P-Chloro-M-Cresol	ND		ug/kg	190	55.	1
2-Chlorophenol	ND		ug/kg	190	57.	1
2,4-Dichlorophenol	ND		ug/kg	170	61.	1
2,4-Dimethylphenol	ND		ug/kg	190	56.	1
2-Nitrophenol	ND		ug/kg	410	59.	1
4-Nitrophenol	ND		ug/kg	260	61.	1
2,4-Dinitrophenol	ND		ug/kg	910	260	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	69.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	190	56.	1
2-Methylphenol	ND		ug/kg	190	61.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	62.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	61.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	41.	1

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-03 Date Collected: 07/17/13 12:00

Client ID: B-6 (1-2) Date Received: 07/18/13

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		25-120
Phenol-d6	48		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	60		0-136
4-Terphenyl-d14	69		18-120

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-04	D	Date Collected:	07/17/13 13:00
Client ID:	B-7 (1-2)		Date Received:	07/18/13
Sample Location:	BROOKLYN, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	07/20/13 09:12
Analytical Date:	07/25/13 15:44			
Analyst:	RC			
Percent Solids:	87%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	440	J	ug/kg	750	190	5
1,2,4-Trichlorobenzene	ND		ug/kg	940	310	5
Hexachlorobenzene	ND		ug/kg	570	180	5
Bis(2-chloroethyl)ether	ND		ug/kg	850	260	5
2-Chloronaphthalene	ND		ug/kg	940	310	5
1,2-Dichlorobenzene	ND		ug/kg	940	310	5
1,3-Dichlorobenzene	ND		ug/kg	940	300	5
1,4-Dichlorobenzene	ND		ug/kg	940	290	5
3,3'-Dichlorobenzidine	ND		ug/kg	940	250	5
2,4-Dinitrotoluene	ND		ug/kg	940	200	5
2,6-Dinitrotoluene	ND		ug/kg	940	240	5
Fluoranthene	6600		ug/kg	570	170	5
4-Chlorophenyl phenyl ether	ND		ug/kg	940	290	5
4-Bromophenyl phenyl ether	ND		ug/kg	940	220	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	330	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	280	5
Hexachlorobutadiene	ND		ug/kg	940	270	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	600	5
Hexachloroethane	ND		ug/kg	750	170	5
Isophorone	ND		ug/kg	850	250	5
Naphthalene	330	J	ug/kg	940	310	5
Nitrobenzene	ND		ug/kg	850	220	5
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	750	200	5
n-Nitrosodi-n-propylamine	ND		ug/kg	940	280	5
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	940	250	5
Butyl benzyl phthalate	ND		ug/kg	940	180	5
Di-n-butylphthalate	ND		ug/kg	940	180	5
Di-n-octylphthalate	ND		ug/kg	940	230	5
Diethyl phthalate	ND		ug/kg	940	200	5
Dimethyl phthalate	ND		ug/kg	940	240	5
Benzo(a)anthracene	2500		ug/kg	570	180	5

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-04 D
Client ID: B-7 (1-2)
Sample Location: BROOKLYN, NY

Date Collected: 07/17/13 13:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	2000		ug/kg	750	230	5
Benzo(b)fluoranthene	2700		ug/kg	570	190	5
Benzo(k)fluoranthene	1100		ug/kg	570	180	5
Chrysene	2700		ug/kg	570	180	5
Acenaphthylene	ND		ug/kg	750	180	5
Anthracene	820		ug/kg	570	160	5
Benzo(ghi)perylene	1400		ug/kg	750	200	5
Fluorene	420	J	ug/kg	940	270	5
Phenanthrene	6200		ug/kg	570	180	5
Dibenzo(a,h)anthracene	560	J	ug/kg	570	180	5
Indeno(1,2,3-cd)Pyrene	1500		ug/kg	750	210	5
Pyrene	5500		ug/kg	570	180	5
Biphenyl	ND		ug/kg	2200	310	5
4-Chloroaniline	ND		ug/kg	940	250	5
2-Nitroaniline	ND		ug/kg	940	270	5
3-Nitroaniline	ND		ug/kg	940	260	5
4-Nitroaniline	ND		ug/kg	940	250	5
Dibenzofuran	370	J	ug/kg	940	320	5
2-Methylnaphthalene	ND		ug/kg	1100	300	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	940	290	5
Acetophenone	ND		ug/kg	940	290	5
2,4,6-Trichlorophenol	ND		ug/kg	570	180	5
P-Chloro-M-Cresol	ND		ug/kg	940	270	5
2-Chlorophenol	ND		ug/kg	940	280	5
2,4-Dichlorophenol	ND		ug/kg	850	300	5
2,4-Dimethylphenol	ND		ug/kg	940	280	5
2-Nitrophenol	ND		ug/kg	2000	290	5
4-Nitrophenol	ND		ug/kg	1300	300	5
2,4-Dinitrophenol	ND		ug/kg	4500	1300	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	340	5
Pentachlorophenol	ND		ug/kg	750	200	5
Phenol	ND		ug/kg	940	280	5
2-Methylphenol	ND		ug/kg	940	300	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	310	5
2,4,5-Trichlorophenol	ND		ug/kg	940	300	5
Benzoic Acid	ND		ug/kg	3000	960	5
Benzyl Alcohol	ND		ug/kg	940	290	5
Carbazole	570	J	ug/kg	940	200	5

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-04 D
Client ID: B-7 (1-2)
Sample Location: BROOKLYN, NY

Date Collected: 07/17/13 13:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	92		0-136
4-Terphenyl-d14	78		18-120

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-05	D	Date Collected:	07/17/13 14:00
Client ID:	B-8 (1-2)		Date Received:	07/18/13
Sample Location:	BROOKLYN, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8270D		Extraction Date:	07/20/13 09:12
Analytical Date:	07/25/13 16:11			
Analyst:	RC			
Percent Solids:	85%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	780	200	5
1,2,4-Trichlorobenzene	ND		ug/kg	970	320	5
Hexachlorobenzene	ND		ug/kg	580	180	5
Bis(2-chloroethyl)ether	ND		ug/kg	880	270	5
2-Chloronaphthalene	ND		ug/kg	970	320	5
1,2-Dichlorobenzene	ND		ug/kg	970	320	5
1,3-Dichlorobenzene	ND		ug/kg	970	310	5
1,4-Dichlorobenzene	ND		ug/kg	970	300	5
3,3'-Dichlorobenzidine	ND		ug/kg	970	260	5
2,4-Dinitrotoluene	ND		ug/kg	970	210	5
2,6-Dinitrotoluene	ND		ug/kg	970	250	5
Fluoranthene	1400		ug/kg	580	180	5
4-Chlorophenyl phenyl ether	ND		ug/kg	970	300	5
4-Bromophenyl phenyl ether	ND		ug/kg	970	220	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	340	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	290	5
Hexachlorobutadiene	ND		ug/kg	970	270	5
Hexachlorocyclopentadiene	ND		ug/kg	2800	620	5
Hexachloroethane	ND		ug/kg	780	180	5
Isophorone	ND		ug/kg	880	260	5
Naphthalene	ND		ug/kg	970	320	5
Nitrobenzene	ND		ug/kg	880	230	5
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	780	200	5
n-Nitrosodi-n-propylamine	ND		ug/kg	970	290	5
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	970	260	5
Butyl benzyl phthalate	ND		ug/kg	970	190	5
Di-n-butylphthalate	ND		ug/kg	970	190	5
Di-n-octylphthalate	ND		ug/kg	970	240	5
Diethyl phthalate	ND		ug/kg	970	200	5
Dimethyl phthalate	ND		ug/kg	970	250	5
Benzo(a)anthracene	780		ug/kg	580	190	5

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-05 D
Client ID: B-8 (1-2)
Sample Location: BROOKLYN, NY

Date Collected: 07/17/13 14:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	670	J	ug/kg	780	240	5
Benzo(b)fluoranthene	960		ug/kg	580	200	5
Benzo(k)fluoranthene	300	J	ug/kg	580	180	5
Chrysene	720		ug/kg	580	190	5
Acenaphthylene	ND		ug/kg	780	180	5
Anthracene	210	J	ug/kg	580	160	5
Benzo(ghi)perylene	500	J	ug/kg	780	200	5
Fluorene	ND		ug/kg	970	280	5
Phenanthrene	1100		ug/kg	580	190	5
Dibenzo(a,h)anthracene	360	J	ug/kg	580	190	5
Indeno(1,2,3-cd)Pyrene	680	J	ug/kg	780	220	5
Pyrene	1200		ug/kg	580	190	5
Biphenyl	ND		ug/kg	2200	320	5
4-Chloroaniline	ND		ug/kg	970	260	5
2-Nitroaniline	ND		ug/kg	970	270	5
3-Nitroaniline	ND		ug/kg	970	270	5
4-Nitroaniline	ND		ug/kg	970	260	5
Dibenzofuran	ND		ug/kg	970	320	5
2-Methylnaphthalene	ND		ug/kg	1200	310	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	970	300	5
Acetophenone	ND		ug/kg	970	300	5
2,4,6-Trichlorophenol	ND		ug/kg	580	180	5
P-Chloro-M-Cresol	ND		ug/kg	970	280	5
2-Chlorophenol	ND		ug/kg	970	290	5
2,4-Dichlorophenol	ND		ug/kg	880	320	5
2,4-Dimethylphenol	ND		ug/kg	970	290	5
2-Nitrophenol	ND		ug/kg	2100	300	5
4-Nitrophenol	ND		ug/kg	1400	320	5
2,4-Dinitrophenol	ND		ug/kg	4700	1300	5
4,6-Dinitro-o-cresol	ND		ug/kg	2500	360	5
Pentachlorophenol	ND		ug/kg	780	210	5
Phenol	ND		ug/kg	970	290	5
2-Methylphenol	ND		ug/kg	970	310	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	320	5
2,4,5-Trichlorophenol	ND		ug/kg	970	320	5
Benzoic Acid	ND		ug/kg	3200	980	5
Benzyl Alcohol	ND		ug/kg	970	300	5
Carbazole	ND		ug/kg	970	210	5

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-05 D
Client ID: B-8 (1-2)
Sample Location: BROOKLYN, NY

Date Collected: 07/17/13 14:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		25-120
Phenol-d6	40		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	81		0-136
4-Terphenyl-d14	71		18-120

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/24/13 10:09
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/20/13 09:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-05 Batch: WG623074-1					
Acenaphthene	ND		ug/kg	130	34.
Benzidine	ND		ug/kg	540	130
n-Nitrosodimethylamine	ND		ug/kg	330	54.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	99	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	99	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Azobenzene	ND		ug/kg	160	44.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	47.
Hexachlorocyclopentadiene	ND		ug/kg	470	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/24/13 10:09
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/20/13 09:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-05 Batch: WG623074-1					
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	99	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.
Benzo(k)fluoranthene	ND		ug/kg	99	32.
Chrysene	ND		ug/kg	99	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	99	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	99	32.
Biphenyl	ND		ug/kg	380	54.
Aniline	ND		ug/kg	200	34.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	47.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	45.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/24/13 10:09
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/20/13 09:12

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-05 Batch: WG623074-1					
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	790	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	60.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.
Benzaldehyde	ND		ug/kg	220	67.
Caprolactam	ND		ug/kg	160	46.
Atrazine	ND		ug/kg	130	37.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	28.
Pyridine	ND		ug/kg	660	59.
Parathion, ethyl	ND		ug/kg	160	65.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	53		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	61		0-136
4-Terphenyl-d14	73		18-120

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/27/13 18:54
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/26/13 16:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG624662-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	99	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	99	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	47.
Hexachlorocyclopentadiene	ND		ug/kg	480	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	99	32.

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/27/13 18:54
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/26/13 16:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG624662-1					
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.
Benzo(k)fluoranthene	ND		ug/kg	99	32.
Chrysene	ND		ug/kg	99	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	99	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	48.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	99	32.
Biphenyl	ND		ug/kg	380	55.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	47.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	45.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	800	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	61.
Pentachlorophenol	ND		ug/kg	130	35.

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/27/13 18:54
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/26/13 16:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG624662-1					
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	85		0-136
4-Terphenyl-d14	98		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05 Batch: WG623074-2 WG623074-3								
Acenaphthene	82		78		31-137	5		50
Benzidine	18		36			**67**	Q	50
n-Nitrosodimethylamine	59		53			11		50
1,2,4-Trichlorobenzene	70		70		38-107	0		50
Hexachlorobenzene	86		82		40-140	5		50
Bis(2-chloroethyl)ether	65		60		40-140	8		50
2-Chloronaphthalene	83		79		40-140	5		50
1,2-Dichlorobenzene	67		64		40-140	5		50
1,3-Dichlorobenzene	68		62		40-140	9		50
1,4-Dichlorobenzene	67		61		28-104	9		50
3,3'-Dichlorobenzidine	69		72		40-140	4		50
2,4-Dinitrotoluene	84		82		28-89	2		50
2,6-Dinitrotoluene	82		83		40-140	1		50
Fluoranthene	84		84		40-140	0		50
4-Chlorophenyl phenyl ether	83		81		40-140	2		50
4-Bromophenyl phenyl ether	82		80		40-140	2		50
Azobenzene	89		88		40-140	1		50
Bis(2-chloroisopropyl)ether	68		66		40-140	3		50
Bis(2-chloroethoxy)methane	73		69		40-117	6		50
Hexachlorobutadiene	75		73		40-140	3		50
Hexachlorocyclopentadiene	51		52		40-140	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05 Batch: WG623074-2 WG623074-3								
Hexachloroethane	69		66		40-140	4		50
Isophorone	74		71		40-140	4		50
Naphthalene	72		71		40-140	1		50
Nitrobenzene	70		68		40-140	3		50
NitrosoDiPhenylAmine(NDPA)/DPA	83		84			1		50
n-Nitrosodi-n-propylamine	72		71		32-121	1		50
Bis(2-Ethylhexyl)phthalate	97		97		40-140	0		50
Butyl benzyl phthalate	85		84		40-140	1		50
Di-n-butylphthalate	94		91		40-140	3		50
Di-n-octylphthalate	100		101		40-140	1		50
Diethyl phthalate	86		86		40-140	0		50
Dimethyl phthalate	85		83		40-140	2		50
Benzo(a)anthracene	90		86		40-140	5		50
Benzo(a)pyrene	86		86		40-140	0		50
Benzo(b)fluoranthene	76		78		40-140	3		50
Benzo(k)fluoranthene	97		95		40-140	2		50
Chrysene	87		88		40-140	1		50
Acenaphthylene	80		76		40-140	5		50
Anthracene	89		89		40-140	0		50
Benzo(ghi)perylene	84		84		40-140	0		50
Fluorene	80		80		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05 Batch: WG623074-2 WG623074-3								
Phenanthrene	86		85		40-140	1		50
Dibenzo(a,h)anthracene	76		76		40-140	0		50
Indeno(1,2,3-cd)Pyrene	77		79		40-140	3		50
Pyrene	84		83		35-142	1		50
Biphenyl	88		83			6		50
Aniline	56		58		40-140	4		50
4-Chloroaniline	70		74		40-140	6		50
2-Nitroaniline	81		78		47-134	4		50
3-Nitroaniline	48		46		26-129	4		50
4-Nitroaniline	72		72		41-125	0		50
Dibenzofuran	83		80		40-140	4		50
2-Methylnaphthalene	75		72		40-140	4		50
1,2,4,5-Tetrachlorobenzene	81		80		40-117	1		50
Acetophenone	75		74		14-144	1		50
2,4,6-Trichlorophenol	79		75		30-130	5		50
P-Chloro-M-Cresol	81		77		26-103	5		50
2-Chlorophenol	69		68		25-102	1		50
2,4-Dichlorophenol	81		78		30-130	4		50
2,4-Dimethylphenol	79		72		30-130	9		50
2-Nitrophenol	69		67		30-130	3		50
4-Nitrophenol	64		64		11-114	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05 Batch: WG623074-2 WG623074-3								
2,4-Dinitrophenol	58		59		4-130	2		50
4,6-Dinitro-o-cresol	74		74		10-130	0		50
Pentachlorophenol	72		74		17-109	3		50
Phenol	69		66		26-90	4		50
2-Methylphenol	74		70		30-130.	6		50
3-Methylphenol/4-Methylphenol	77		70		30-130	10		50
2,4,5-Trichlorophenol	85		80		30-130	6		50
Benzoic Acid	36		31			15		50
Benzyl Alcohol	77		68		40-140	12		50
Carbazole	84		84		54-128	0		50
Benzaldehyde	61		60			2		50
Caprolactam	89		92			3		50
Atrazine	93		93			0		50
2,3,4,6-Tetrachlorophenol	87		86			1		50
Pyridine	51		49		10-93	4		50
Parathion, ethyl	83		84		40-140	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-05 Batch: WG623074-2 WG623074-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		65		25-120
Phenol-d6	66		65		10-120
Nitrobenzene-d5	72		70		23-120
2-Fluorobiphenyl	78		74		30-120
2,4,6-Tribromophenol	93		98		0-136
4-Terphenyl-d14	72		73		18-120

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG624662-2 WG624662-3								
Acenaphthene	89		89		31-137	0		50
1,2,4-Trichlorobenzene	86		86		38-107	0		50
Hexachlorobenzene	97		93		40-140	4		50
Bis(2-chloroethyl)ether	77		79		40-140	3		50
2-Chloronaphthalene	92		88		40-140	4		50
1,2-Dichlorobenzene	83		85		40-140	2		50
1,3-Dichlorobenzene	82		84		40-140	2		50
1,4-Dichlorobenzene	82		84		28-104	2		50
3,3'-Dichlorobenzidine	77		78		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG624662-2 WG624662-3								
2,4-Dinitrotoluene	**103**	Q	**102**	Q	28-89	1		50
2,6-Dinitrotoluene	97		92		40-140	5		50
Fluoranthene	100		100		40-140	0		50
4-Chlorophenyl phenyl ether	96		96		40-140	0		50
4-Bromophenyl phenyl ether	98		97		40-140	1		50
Bis(2-chloroisopropyl)ether	67		68		40-140	1		50
Bis(2-chloroethoxy)methane	82		81		40-117	1		50
Hexachlorobutadiene	91		87		40-140	4		50
Hexachlorocyclopentadiene	74		73		40-140	1		50
Hexachloroethane	83		88		40-140	6		50
Isophorone	84		83		40-140	1		50
Naphthalene	84		84		40-140	0		50
Nitrobenzene	84		84		40-140	0		50
NitrosoDiPhenylAmine(NDPA)/DPA	98		94			4		50
n-Nitrosodi-n-propylamine	84		82		32-121	2		50
Bis(2-Ethylhexyl)phthalate	113		111		40-140	2		50
Butyl benzyl phthalate	114		112		40-140	2		50
Di-n-butylphthalate	109		106		40-140	3		50
Di-n-octylphthalate	116		113		40-140	3		50
Diethyl phthalate	102		100		40-140	2		50
Dimethyl phthalate	98		97		40-140	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG624662-2 WG624662-3								
Benzo(a)anthracene	102		100		40-140	2		50
Benzo(a)pyrene	102		98		40-140	4		50
Benzo(b)fluoranthene	99		91		40-140	8		50
Benzo(k)fluoranthene	100		104		40-140	4		50
Chrysene	96		95		40-140	1		50
Acenaphthylene	92		89		40-140	3		50
Anthracene	101		99		40-140	2		50
Benzo(ghi)perylene	102		102		40-140	0		50
Fluorene	94		92		40-140	2		50
Phenanthrene	96		95		40-140	1		50
Dibenzo(a,h)anthracene	102		102		40-140	0		50
Indeno(1,2,3-cd)Pyrene	103		103		40-140	0		50
Pyrene	100		99		35-142	1		50
Biphenyl	88		89			1		50
4-Chloroaniline	67		50		40-140	29		50
2-Nitroaniline	90		83		47-134	8		50
3-Nitroaniline	73		75		26-129	3		50
4-Nitroaniline	98		96		41-125	2		50
Dibenzofuran	92		91		40-140	1		50
2-Methylnaphthalene	89		85		40-140	5		50
1,2,4,5-Tetrachlorobenzene	85		87		40-117	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG624662-2 WG624662-3								
Acetophenone	93		90		14-144	3		50
2,4,6-Trichlorophenol	95		86		30-130	10		50
P-Chloro-M-Cresol	98		96		26-103	2		50
2-Chlorophenol	90		90		25-102	0		50
2,4-Dichlorophenol	101		95		30-130	6		50
2,4-Dimethylphenol	97		92		30-130	5		50
2-Nitrophenol	88		89		30-130	1		50
4-Nitrophenol	100		99		11-114	1		50
2,4-Dinitrophenol	64		57		4-130	12		50
4,6-Dinitro-o-cresol	84		80		10-130	5		50
Pentachlorophenol	97		93		17-109	4		50
Phenol	85		87		26-90	2		50
2-Methylphenol	92		90		30-130.	2		50
3-Methylphenol/4-Methylphenol	92		91		30-130	1		50
2,4,5-Trichlorophenol	103		98		30-130	5		50
Benzoic Acid	0		0			NC		50
Benzyl Alcohol	89		87		40-140	2		50
Carbazole	100		98		54-128	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG624662-2 WG624662-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		92		25-120
Phenol-d6	87		88		10-120
Nitrobenzene-d5	83		86		23-120
2-Fluorobiphenyl	90		87		30-120
2,4,6-Tribromophenol	103		103		0-136
4-Terphenyl-d14	98		99		18-120

PCBS

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-01	Date Collected:	07/17/13 10:00
Client ID:	B-1 (1-2)	Date Received:	07/18/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	07/19/13 18:40
Analytical Date:	07/20/13 18:39	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	07/20/13
Percent Solids:	85%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/20/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	38.2	7.54	1
Aroclor 1221	ND		ug/kg	38.2	11.5	1
Aroclor 1232	ND		ug/kg	38.2	8.12	1
Aroclor 1242	ND		ug/kg	38.2	7.25	1
Aroclor 1248	ND		ug/kg	38.2	4.62	1
Aroclor 1254	ND		ug/kg	38.2	6.02	1
Aroclor 1260	ND		ug/kg	38.2	6.63	1
Aroclor 1262	ND		ug/kg	38.2	2.82	1
Aroclor 1268	ND		ug/kg	38.2	5.54	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	59		30-150
Decachlorobiphenyl	55		30-150
2,4,5,6-Tetrachloro-m-xylene	57		30-150
Decachlorobiphenyl	63		30-150

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-02	Date Collected:	07/17/13 11:00
Client ID:	B-5 (1-2)	Date Received:	07/18/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	07/23/13 22:18
Analytical Date:	07/24/13 17:06	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	07/24/13
Percent Solids:	86%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/24/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.6	7.43	1
Aroclor 1221	ND		ug/kg	37.6	11.3	1
Aroclor 1232	ND		ug/kg	37.6	7.99	1
Aroclor 1242	ND		ug/kg	37.6	7.14	1
Aroclor 1248	ND		ug/kg	37.6	4.55	1
Aroclor 1254	ND		ug/kg	37.6	5.93	1
Aroclor 1260	ND		ug/kg	37.6	6.53	1
Aroclor 1262	ND		ug/kg	37.6	2.78	1
Aroclor 1268	ND		ug/kg	37.6	5.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	44		30-150
Decachlorobiphenyl	56		30-150
2,4,5,6-Tetrachloro-m-xylene	45		30-150
Decachlorobiphenyl	63		30-150

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-03	Date Collected:	07/17/13 12:00
Client ID:	B-6 (1-2)	Date Received:	07/18/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	07/19/13 18:40
Analytical Date:	07/20/13 19:05	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	07/20/13
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/20/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.0	7.32	1
Aroclor 1221	ND		ug/kg	37.0	11.2	1
Aroclor 1232	ND		ug/kg	37.0	7.87	1
Aroclor 1242	ND		ug/kg	37.0	7.03	1
Aroclor 1248	ND		ug/kg	37.0	4.48	1
Aroclor 1254	ND		ug/kg	37.0	5.84	1
Aroclor 1260	ND		ug/kg	37.0	6.43	1
Aroclor 1262	ND		ug/kg	37.0	2.74	1
Aroclor 1268	ND		ug/kg	37.0	5.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62		30-150
Decachlorobiphenyl	60		30-150
2,4,5,6-Tetrachloro-m-xylene	61		30-150
Decachlorobiphenyl	63		30-150

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-04	Date Collected:	07/17/13 13:00
Client ID:	B-7 (1-2)	Date Received:	07/18/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	07/19/13 18:40
Analytical Date:	07/20/13 19:18	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	07/20/13
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/20/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	36.9	7.29	1
Aroclor 1221	ND		ug/kg	36.9	11.1	1
Aroclor 1232	ND		ug/kg	36.9	7.84	1
Aroclor 1242	ND		ug/kg	36.9	7.00	1
Aroclor 1248	ND		ug/kg	36.9	4.46	1
Aroclor 1254	ND		ug/kg	36.9	5.82	1
Aroclor 1260	ND		ug/kg	36.9	6.40	1
Aroclor 1262	ND		ug/kg	36.9	2.73	1
Aroclor 1268	ND		ug/kg	36.9	5.35	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	51		30-150
Decachlorobiphenyl	64		30-150
2,4,5,6-Tetrachloro-m-xylene	48		30-150
Decachlorobiphenyl	66		30-150

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-05	Date Collected:	07/17/13 14:00
Client ID:	B-8 (1-2)	Date Received:	07/18/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	07/19/13 18:40
Analytical Date:	07/20/13 19:32	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	07/20/13
Percent Solids:	85%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	07/20/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	37.1	7.32	1
Aroclor 1221	ND		ug/kg	37.1	11.2	1
Aroclor 1232	ND		ug/kg	37.1	7.87	1
Aroclor 1242	ND		ug/kg	37.1	7.04	1
Aroclor 1248	ND		ug/kg	37.1	4.48	1
Aroclor 1254	ND		ug/kg	37.1	5.84	1
Aroclor 1260	ND		ug/kg	37.1	6.43	1
Aroclor 1262	ND		ug/kg	37.1	2.74	1
Aroclor 1268	ND		ug/kg	37.1	5.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	48		30-150
Decachlorobiphenyl	57		30-150
2,4,5,6-Tetrachloro-m-xylene	44		30-150
Decachlorobiphenyl	59		30-150

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/20/13 20:25
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 07/19/13 18:40
Cleanup Method1: EPA 3665A
Cleanup Date1: 07/20/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 07/20/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03-05 Batch: WG623000-1					
Aroclor 1016	ND		ug/kg	32.7	6.47
Aroclor 1221	ND		ug/kg	32.7	9.88
Aroclor 1232	ND		ug/kg	32.7	6.96
Aroclor 1242	ND		ug/kg	32.7	6.21
Aroclor 1248	ND		ug/kg	32.7	3.96
Aroclor 1254	ND		ug/kg	32.7	5.16
Aroclor 1260	ND		ug/kg	32.7	5.68
Aroclor 1262	ND		ug/kg	32.7	2.42
Aroclor 1268	ND		ug/kg	32.7	4.75

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	90		30-150
Decachlorobiphenyl	85		30-150
2,4,5,6-Tetrachloro-m-xylene	91		30-150
Decachlorobiphenyl	90		30-150

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/24/13 17:19
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 07/23/13 22:18
Cleanup Method1: EPA 3665A
Cleanup Date1: 07/24/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 07/24/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG623709-1					
Aroclor 1016	ND		ug/kg	32.0	6.33
Aroclor 1221	ND		ug/kg	32.0	9.66
Aroclor 1232	ND		ug/kg	32.0	6.80
Aroclor 1242	ND		ug/kg	32.0	6.08
Aroclor 1248	ND		ug/kg	32.0	3.88
Aroclor 1254	ND		ug/kg	32.0	5.05
Aroclor 1260	ND		ug/kg	32.0	5.56
Aroclor 1262	ND		ug/kg	32.0	2.37
Aroclor 1268	ND		ug/kg	32.0	4.65

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	104		30-150
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	111		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03-05 Batch: WG623000-2 WG623000-3								
Aroclor 1016	56		65		40-140	15		50
Aroclor 1260	51		62		40-140	19		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	60		71		30-150
Decachlorobiphenyl	58		69		30-150
2,4,5,6-Tetrachloro-m-xylene	59		71		30-150
Decachlorobiphenyl	60		70		30-150

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02 Batch: WG623709-2 WG623709-3								
Aroclor 1016	58		67		40-140	14		50
Aroclor 1260	67		75		40-140	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	61		67		30-150
Decachlorobiphenyl	83		92		30-150
2,4,5,6-Tetrachloro-m-xylene	59		67		30-150
Decachlorobiphenyl	89		100		30-150

PESTICIDES

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-01	D	Date Collected:	07/17/13 10:00
Client ID:	B-1 (1-2)		Date Received:	07/18/13
Sample Location:	BROOKLYN, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8081B		Extraction Date:	07/19/13 15:58
Analytical Date:	07/25/13 12:48		Cleanup Method1:	EPA 3620B
Analyst:	BW		Cleanup Date1:	07/20/13
Percent Solids:	85%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	188	36.9	100
Lindane	ND		ug/kg	78.5	35.1	100
Alpha-BHC	ND		ug/kg	78.5	22.3	100
Beta-BHC	ND		ug/kg	188	71.4	100
Heptachlor	ND		ug/kg	94.2	42.2	100
Aldrin	ND		ug/kg	188	66.3	100
Heptachlor epoxide	ND		ug/kg	353	106.	100
Endrin	ND		ug/kg	78.5	32.2	100
Endrin ketone	ND		ug/kg	188	48.5	100
Dieldrin	ND		ug/kg	118	58.9	100
4,4'-DDE	ND		ug/kg	188	43.6	100
4,4'-DDD	ND		ug/kg	188	67.2	100
4,4'-DDT	ND		ug/kg	353	151.	100
Endosulfan I	ND		ug/kg	188	44.5	100
Endosulfan II	ND		ug/kg	188	62.9	100
Endosulfan sulfate	ND		ug/kg	78.5	35.9	100
Methoxychlor	ND		ug/kg	353	110.	100
Toxaphene	ND		ug/kg	3530	989.	100
cis-Chlordane	ND		ug/kg	235	65.6	100
trans-Chlordane	ND		ug/kg	235	62.2	100
Chlordane	ND		ug/kg	1530	624.	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-02	D	Date Collected:	07/17/13 11:00
Client ID:	B-5 (1-2)		Date Received:	07/18/13
Sample Location:	BROOKLYN, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8081B		Extraction Date:	07/19/13 15:58
Analytical Date:	07/22/13 09:53		Cleanup Method1:	EPA 3620B
Analyst:	BW		Cleanup Date1:	07/20/13
Percent Solids:	86%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	36.8	7.20	20
Lindane	ND		ug/kg	15.3	6.84	20
Alpha-BHC	ND		ug/kg	15.3	4.35	20
Beta-BHC	ND		ug/kg	36.8	13.9	20
Heptachlor	ND		ug/kg	18.4	8.24	20
Aldrin	ND		ug/kg	36.8	12.9	20
Heptachlor epoxide	ND		ug/kg	68.9	20.7	20
Endrin ketone	ND		ug/kg	36.8	9.46	20
Dieldrin	ND		ug/kg	23.0	11.5	20
4,4'-DDE	ND		ug/kg	36.8	8.50	20
4,4'-DDD	ND		ug/kg	36.8	13.1	20
4,4'-DDT	ND		ug/kg	68.9	29.6	20
Endosulfan I	ND		ug/kg	36.8	8.68	20
Endosulfan II	ND		ug/kg	36.8	12.3	20
Endosulfan sulfate	ND		ug/kg	15.3	7.00	20
Methoxychlor	ND		ug/kg	68.9	21.4	20
Toxaphene	ND		ug/kg	689	193.	20
cis-Chlordane	ND		ug/kg	45.9	12.8	20
trans-Chlordane	ND		ug/kg	45.9	12.1	20
Chlordane	ND		ug/kg	299	122.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-02	D	Date Collected:	07/17/13 11:00
Client ID:	B-5 (1-2)		Date Received:	07/18/13
Sample Location:	BROOKLYN, NY		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	EPA 3546
Analytical Method:	1,8081B		Extraction Date:	07/19/13 15:58
Analytical Date:	07/22/13 09:53		Cleanup Method1:	EPA 3620B
Analyst:	BW		Cleanup Date1:	07/20/13
Percent Solids:	86%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Endrin	16.8	PI	ug/kg	15.3	6.28	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-03	Date Collected:	07/17/13 12:00
Client ID:	B-6 (1-2)	Date Received:	07/18/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	07/19/13 15:58
Analytical Date:	07/22/13 10:06	Cleanup Method1:	EPA 3620B
Analyst:	BW	Cleanup Date1:	07/20/13
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.78	0.348	1
Lindane	ND		ug/kg	0.740	0.331	1
Alpha-BHC	ND		ug/kg	0.740	0.210	1
Beta-BHC	ND		ug/kg	1.78	0.673	1
Heptachlor	ND		ug/kg	0.888	0.398	1
Aldrin	ND		ug/kg	1.78	0.625	1
Heptachlor epoxide	ND		ug/kg	3.33	0.999	1
Endrin	1.24		ug/kg	0.740	0.303	1
Endrin ketone	ND		ug/kg	1.78	0.457	1
Dieldrin	ND		ug/kg	1.11	0.555	1
4,4'-DDE	ND		ug/kg	1.78	0.411	1
4,4'-DDD	ND		ug/kg	1.78	0.634	1
4,4'-DDT	ND		ug/kg	3.33	1.43	1
Endosulfan I	ND		ug/kg	1.78	0.420	1
Endosulfan II	ND		ug/kg	1.78	0.594	1
Endosulfan sulfate	ND		ug/kg	0.740	0.338	1
Methoxychlor	ND		ug/kg	3.33	1.04	1
Toxaphene	ND		ug/kg	33.3	9.32	1
cis-Chlordane	ND		ug/kg	2.22	0.619	1
trans-Chlordane	ND		ug/kg	2.22	0.586	1
Chlordane	ND		ug/kg	14.4	5.88	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	105		30-150	B

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-04	Date Collected:	07/17/13 13:00
Client ID:	B-7 (1-2)	Date Received:	07/18/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	07/19/13 15:58
Analytical Date:	07/22/13 10:19	Cleanup Method1:	EPA 3620B
Analyst:	BW	Cleanup Date1:	07/20/13
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.83	0.358	1
Lindane	ND		ug/kg	0.762	0.340	1
Alpha-BHC	ND		ug/kg	0.762	0.216	1
Beta-BHC	ND		ug/kg	1.83	0.693	1
Heptachlor	ND		ug/kg	0.914	0.410	1
Aldrin	ND		ug/kg	1.83	0.644	1
Heptachlor epoxide	ND		ug/kg	3.43	1.03	1
Endrin	2.87		ug/kg	0.762	0.312	1
Endrin ketone	ND		ug/kg	1.83	0.471	1
Dieldrin	ND		ug/kg	1.14	0.571	1
4,4'-DDE	ND		ug/kg	1.83	0.423	1
4,4'-DDD	ND		ug/kg	1.83	0.652	1
4,4'-DDT	ND		ug/kg	3.43	1.47	1
Endosulfan I	ND		ug/kg	1.83	0.432	1
Endosulfan II	ND		ug/kg	1.83	0.611	1
Endosulfan sulfate	ND		ug/kg	0.762	0.348	1
Methoxychlor	ND		ug/kg	3.43	1.07	1
Toxaphene	ND		ug/kg	34.3	9.60	1
cis-Chlordane	ND		ug/kg	2.28	0.637	1
trans-Chlordane	ND		ug/kg	2.28	0.603	1
Chlordane	ND		ug/kg	14.8	6.06	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	115		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	136		30-150	B

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

SAMPLE RESULTS

Lab ID:	L1313489-05	Date Collected:	07/17/13 14:00
Client ID:	B-8 (1-2)	Date Received:	07/18/13
Sample Location:	BROOKLYN, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	07/19/13 15:58
Analytical Date:	07/22/13 10:32	Cleanup Method1:	EPA 3620B
Analyst:	BW	Cleanup Date1:	07/20/13
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Organochlorine Pesticides by GC - Westborough Lab						
Delta-BHC	ND		ug/kg	1.76	0.345	1
Lindane	ND		ug/kg	0.735	0.328	1
Alpha-BHC	ND		ug/kg	0.735	0.209	1
Beta-BHC	ND		ug/kg	1.76	0.669	1
Heptachlor	ND		ug/kg	0.882	0.395	1
Aldrin	ND		ug/kg	1.76	0.621	1
Heptachlor epoxide	ND		ug/kg	3.31	0.992	1
Endrin	ND		ug/kg	0.735	0.301	1
Endrin ketone	ND		ug/kg	1.76	0.454	1
Dieldrin	ND		ug/kg	1.10	0.551	1
4,4'-DDE	ND		ug/kg	1.76	0.408	1
4,4'-DDD	ND		ug/kg	1.76	0.629	1
4,4'-DDT	ND		ug/kg	3.31	1.42	1
Endosulfan I	ND		ug/kg	1.76	0.417	1
Endosulfan II	ND		ug/kg	1.76	0.589	1
Endosulfan sulfate	ND		ug/kg	0.735	0.336	1
Methoxychlor	ND		ug/kg	3.31	1.03	1
Toxaphene	ND		ug/kg	33.1	9.26	1
cis-Chlordane	ND		ug/kg	2.20	0.614	1
trans-Chlordane	ND		ug/kg	2.20	0.582	1
Chlordane	ND		ug/kg	14.3	5.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	126		30-150	B

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/24/13 21:32
Analyst: BW

Extraction Method: EPA 3546
Extraction Date: 07/19/13 15:58
Cleanup Method1: EPA 3620B
Cleanup Date1: 07/20/13

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG622970-1					
Delta-BHC	ND		ug/kg	1.57	0.308
Lindane	ND		ug/kg	0.656	0.293
Alpha-BHC	ND		ug/kg	0.656	0.186
Beta-BHC	ND		ug/kg	1.57	0.597
Heptachlor	ND		ug/kg	0.787	0.353
Aldrin	ND		ug/kg	1.57	0.554
Heptachlor epoxide	ND		ug/kg	2.95	0.886
Endrin	ND		ug/kg	0.656	0.269
Endrin ketone	ND		ug/kg	1.57	0.406
Dieldrin	ND		ug/kg	0.984	0.492
4,4'-DDE	ND		ug/kg	1.57	0.364
4,4'-DDD	ND		ug/kg	1.57	0.562
4,4'-DDT	ND		ug/kg	2.95	1.27
Endosulfan I	ND		ug/kg	1.57	0.372
Endosulfan II	ND		ug/kg	1.57	0.526
Endosulfan sulfate	ND		ug/kg	0.656	0.300
Methoxychlor	ND		ug/kg	2.95	0.919
Toxaphene	ND		ug/kg	29.5	8.27
cis-Chlordane	ND		ug/kg	1.97	0.548
trans-Chlordane	ND		ug/kg	1.97	0.520
Chlordane	ND		ug/kg	12.8	5.22

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	86		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG622970-2 WG622970-3								
Delta-BHC	88		87		30-150	1		30
Lindane	91		91		30-150	0		30
Alpha-BHC	89		88		30-150	1		30
Beta-BHC	99		96		30-150	3		30
Heptachlor	94		91		30-150	3		30
Aldrin	87		87		30-150	0		30
Heptachlor epoxide	88		87		30-150	1		30
Endrin	102		100		30-150	2		30
Endrin ketone	78		78		30-150	0		30
Dieldrin	92		90		30-150	2		30
4,4'-DDE	94		93		30-150	1		30
4,4'-DDD	91		90		30-150	1		30
4,4'-DDT	90		88		30-150	2		30
Endosulfan I	89		86		30-150	3		30
Endosulfan II	86		84		30-150	2		30
Endosulfan sulfate	75		74		30-150	1		30
Methoxychlor	83		84		30-150	1		30
cis-Chlordane	88		88		30-150	0		30
trans-Chlordane	90		88		30-150	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG622970-2 WG622970-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		80		30-150	A
Decachlorobiphenyl	75		85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		75		30-150	B
Decachlorobiphenyl	92		96		30-150	B

METALS

Project Name: HOPE ST.
Project Number: 1124G-13-01
Lab Number: L1313489
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-01
Client ID: B-1 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 85%

Date Collected: 07/17/13 10:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9100		mg/kg	8.9	1.8	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Antimony, Total	1.4	J	mg/kg	4.4	0.71	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Arsenic, Total	9.5		mg/kg	0.89	0.18	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Barium, Total	150		mg/kg	0.89	0.27	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Beryllium, Total	0.37	J	mg/kg	0.44	0.09	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Cadmium, Total	0.56	J	mg/kg	0.89	0.06	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Calcium, Total	17000		mg/kg	8.9	2.7	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Chromium, Total	30		mg/kg	0.89	0.18	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Cobalt, Total	6.6		mg/kg	1.8	0.44	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Copper, Total	32		mg/kg	0.89	0.18	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Iron, Total	22000		mg/kg	4.4	1.8	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Lead, Total	550		mg/kg	4.4	0.18	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Magnesium, Total	2300		mg/kg	8.9	0.89	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Manganese, Total	350		mg/kg	0.89	0.18	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Mercury, Total	2.6		mg/kg	0.10	0.02	1	07/22/13 14:54	07/23/13 12:06	EPA 7471B	1,7471B	MC
Nickel, Total	17		mg/kg	2.2	0.35	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Potassium, Total	990		mg/kg	220	35.	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Selenium, Total	0.27	J	mg/kg	1.8	0.27	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.89	0.18	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Sodium, Total	210		mg/kg	180	27.	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.35	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Vanadium, Total	30		mg/kg	0.89	0.09	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG
Zinc, Total	77		mg/kg	4.4	0.62	2	07/23/13 12:25	07/24/13 16:42	EPA 3050B	1,6010C	MG

Project Name: HOPE ST.
Project Number: 1124G-13-01
Lab Number: L1313489
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-02
Client ID: B-5 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 86%

Date Collected: 07/17/13 11:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5700		mg/kg	8.8	1.8	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Antimony, Total	1.7	J	mg/kg	4.4	0.70	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Arsenic, Total	7.6		mg/kg	0.88	0.18	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Barium, Total	140		mg/kg	0.88	0.26	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Beryllium, Total	0.26	J	mg/kg	0.44	0.09	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Cadmium, Total	0.63	J	mg/kg	0.88	0.06	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Calcium, Total	20000		mg/kg	8.8	2.6	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Chromium, Total	61		mg/kg	0.88	0.18	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Cobalt, Total	7.7		mg/kg	1.8	0.44	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Copper, Total	96		mg/kg	0.88	0.18	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Iron, Total	24000		mg/kg	4.4	1.8	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Lead, Total	400		mg/kg	4.4	0.18	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Magnesium, Total	1400		mg/kg	8.8	0.88	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Manganese, Total	470		mg/kg	0.88	0.18	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Mercury, Total	4.6		mg/kg	0.16	0.03	2	07/22/13 14:54	07/23/13 12:33	EPA 7471B	1,7471B	MC
Nickel, Total	13		mg/kg	2.2	0.35	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Potassium, Total	1100		mg/kg	220	35.	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Selenium, Total	0.79	J	mg/kg	1.8	0.26	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Silver, Total	0.26	J	mg/kg	0.88	0.18	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Sodium, Total	490		mg/kg	180	26.	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.35	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Vanadium, Total	25		mg/kg	0.88	0.09	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG
Zinc, Total	130		mg/kg	4.4	0.62	2	07/23/13 12:25	07/24/13 16:49	EPA 3050B	1,6010C	MG

Project Name: HOPE ST.
Project Number: 1124G-13-01
Lab Number: L1313489
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-03
Client ID: B-6 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 07/17/13 12:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7000		mg/kg	8.6	1.7	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Antimony, Total	ND		mg/kg	4.3	0.69	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Arsenic, Total	4.7		mg/kg	0.86	0.17	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Barium, Total	62		mg/kg	0.86	0.26	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Beryllium, Total	0.28	J	mg/kg	0.43	0.09	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Cadmium, Total	0.38	J	mg/kg	0.86	0.06	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Calcium, Total	4500		mg/kg	8.6	2.6	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Chromium, Total	17		mg/kg	0.86	0.17	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Cobalt, Total	6.1		mg/kg	1.7	0.43	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Copper, Total	24		mg/kg	0.86	0.17	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Iron, Total	17000		mg/kg	4.3	1.7	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Lead, Total	170		mg/kg	4.3	0.17	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Magnesium, Total	1800		mg/kg	8.6	0.86	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Manganese, Total	320		mg/kg	0.86	0.17	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Mercury, Total	0.51		mg/kg	0.08	0.02	1	07/22/13 14:54	07/23/13 12:10	EPA 7471B	1,7471B	MC
Nickel, Total	12		mg/kg	2.1	0.34	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Potassium, Total	660		mg/kg	210	34.	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Selenium, Total	ND		mg/kg	1.7	0.26	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.86	0.17	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Sodium, Total	84	J	mg/kg	170	26.	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.34	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Vanadium, Total	22		mg/kg	0.86	0.09	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG
Zinc, Total	50		mg/kg	4.3	0.60	2	07/23/13 12:25	07/24/13 16:53	EPA 3050B	1,6010C	MG

Project Name: HOPE ST.
Project Number: 1124G-13-01
Lab Number: L1313489
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-04
Client ID: B-7 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 87%

Date Collected: 07/17/13 13:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5600		mg/kg	8.9	1.8	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Antimony, Total	1.8	J	mg/kg	4.4	0.71	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Arsenic, Total	9.5		mg/kg	0.89	0.18	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Barium, Total	430		mg/kg	0.89	0.27	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Beryllium, Total	0.38	J	mg/kg	0.44	0.09	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Cadmium, Total	1.0		mg/kg	0.89	0.06	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Calcium, Total	10000		mg/kg	8.9	2.7	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Chromium, Total	22		mg/kg	0.89	0.18	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Cobalt, Total	5.1		mg/kg	1.8	0.44	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Copper, Total	68		mg/kg	0.89	0.18	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Iron, Total	12000		mg/kg	4.4	1.8	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Lead, Total	540		mg/kg	4.4	0.18	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Magnesium, Total	1300		mg/kg	8.9	0.89	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Manganese, Total	260		mg/kg	0.89	0.18	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Mercury, Total	2.5		mg/kg	0.10	0.02	1	07/22/13 14:54	07/23/13 12:12	EPA 7471B	1,7471B	MC
Nickel, Total	15		mg/kg	2.2	0.36	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Potassium, Total	850		mg/kg	220	36.	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Selenium, Total	0.84	J	mg/kg	1.8	0.27	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Silver, Total	0.35	J	mg/kg	0.89	0.18	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Sodium, Total	490		mg/kg	180	27.	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.36	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Vanadium, Total	20		mg/kg	0.89	0.09	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG
Zinc, Total	350		mg/kg	4.4	0.62	2	07/23/13 12:25	07/24/13 17:11	EPA 3050B	1,6010C	MG

Project Name: HOPE ST.
Project Number: 1124G-13-01
Lab Number: L1313489
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-05
Client ID: B-8 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil
Percent Solids: 85%

Date Collected: 07/17/13 14:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6200		mg/kg	8.8	1.8	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Antimony, Total	1.8	J	mg/kg	4.4	0.71	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Arsenic, Total	9.3		mg/kg	0.88	0.18	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Barium, Total	240		mg/kg	0.88	0.26	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Beryllium, Total	0.45		mg/kg	0.44	0.09	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Cadmium, Total	0.52	J	mg/kg	0.88	0.06	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Calcium, Total	11000		mg/kg	8.8	2.6	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Chromium, Total	21		mg/kg	0.88	0.18	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Cobalt, Total	5.7		mg/kg	1.8	0.44	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Copper, Total	83		mg/kg	0.88	0.18	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Iron, Total	16000		mg/kg	4.4	1.8	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Lead, Total	790		mg/kg	4.4	0.18	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Magnesium, Total	1200		mg/kg	8.8	0.88	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Manganese, Total	210		mg/kg	0.88	0.18	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Mercury, Total	3.0		mg/kg	0.09	0.02	1	07/22/13 14:54	07/23/13 12:14	EPA 7471B	1,7471B	MC
Nickel, Total	13		mg/kg	2.2	0.35	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Potassium, Total	1000		mg/kg	220	35.	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Selenium, Total	0.96	J	mg/kg	1.8	0.26	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Silver, Total	1.0		mg/kg	0.88	0.18	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Sodium, Total	380		mg/kg	180	26.	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.8	0.35	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Vanadium, Total	22		mg/kg	0.88	0.09	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG
Zinc, Total	170		mg/kg	4.4	0.62	2	07/23/13 12:25	07/24/13 17:14	EPA 3050B	1,6010C	MG

Project Name: HOPE ST. **Lab Number:** L1313489

Project Number: 1124G-13-01 **Report Date:** 07/29/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG623267-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/22/13 14:54	07/23/13 11:24	1,7471B	MC

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG623582-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Antimony, Total	ND		mg/kg	2.0	0.32	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Arsenic, Total	ND		mg/kg	0.40	0.08	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Barium, Total	ND		mg/kg	0.40	0.12	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Beryllium, Total	ND		mg/kg	0.20	0.04	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.40	0.03	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Calcium, Total	ND		mg/kg	4.0	1.2	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Chromium, Total	ND		mg/kg	0.40	0.08	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Cobalt, Total	ND		mg/kg	0.80	0.20	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Copper, Total	ND		mg/kg	0.40	0.08	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Iron, Total	ND		mg/kg	2.0	0.80	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Lead, Total	ND		mg/kg	2.0	0.08	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Magnesium, Total	ND		mg/kg	4.0	0.40	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Manganese, Total	ND		mg/kg	0.40	0.08	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Nickel, Total	ND		mg/kg	1.0	0.16	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Potassium, Total	ND		mg/kg	100	16.	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Selenium, Total	ND		mg/kg	0.80	0.12	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Silver, Total	ND		mg/kg	0.40	0.08	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Sodium, Total	ND		mg/kg	80	12.	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Thallium, Total	ND		mg/kg	0.80	0.16	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Vanadium, Total	ND		mg/kg	0.40	0.04	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG
Zinc, Total	ND		mg/kg	2.0	0.28	1	07/23/13 12:25	07/24/13 14:31	1,6010C	MG

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG623267-2 SRM Lot Number: 0518-10-02								
Mercury, Total	127		-		67-133	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG623582-2 SRM Lot Number: 0518-10-02					
Aluminum, Total	88	-	29-171	-	
Antimony, Total	117	-	4-196	-	
Arsenic, Total	100	-	81-119	-	
Barium, Total	100	-	83-118	-	
Beryllium, Total	104	-	83-117	-	
Cadmium, Total	94	-	82-117	-	
Calcium, Total	94	-	83-117	-	
Chromium, Total	101	-	80-119	-	
Cobalt, Total	101	-	83-117	-	
Copper, Total	101	-	83-117	-	
Iron, Total	101	-	51-150	-	
Lead, Total	99	-	80-120	-	
Magnesium, Total	101	-	74-126	-	
Manganese, Total	100	-	83-117	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	99	-	74-126	-	
Selenium, Total	102	-	80-120	-	
Silver, Total	105	-	66-134	-	
Sodium, Total	103	-	74-127	-	
Thallium, Total	101	-	79-120	-	
Vanadium, Total	98	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: HOPE ST.

Project Number: 1124G-13-01

Lab Number: L1313489

Report Date: 07/29/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG623582-2 SRM Lot Number: 0518-10-02					
Zinc, Total	94	-	82-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG623267-4 QC Sample: L1313382-01 Client ID: MS Sample												
Mercury, Total	ND	1.33	1.6	120		-	-		70-130	-		35

Matrix Spike Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG623582-4 QC Sample: L1313003-07 Client ID: MS Sample										
Aluminum, Total	3100	170	3800	**412**	Q	-	-	75-125	-	35
Antimony, Total	ND	42.4	40	94		-	-	75-125	-	35
Arsenic, Total	0.45J	10.2	11	108		-	-	75-125	-	35
Barium, Total	14.	170	210	115		-	-	75-125	-	35
Beryllium, Total	0.18J	4.24	5.0	118		-	-	75-125	-	35
Cadmium, Total	0.13J	4.33	4.6	106		-	-	75-125	-	35
Calcium, Total	400	848	1400	118		-	-	75-125	-	35
Chromium, Total	4.8	17	24	113		-	-	75-125	-	35
Cobalt, Total	3.1	42.4	46	101		-	-	75-125	-	35
Copper, Total	5.5	21.2	30	115		-	-	75-125	-	35
Iron, Total	5600	84.8	6300	**825**	Q	-	-	75-125	-	35
Lead, Total	2.5J	43.3	48	111		-	-	75-125	-	35
Magnesium, Total	1100	848	2000	106		-	-	75-125	-	35
Manganese, Total	46.	42.4	92	108		-	-	75-125	-	35
Nickel, Total	5.0	42.4	47	99		-	-	75-125	-	35
Potassium, Total	220	848	1200	115		-	-	75-125	-	35
Selenium, Total	ND	10.2	10	98		-	-	75-125	-	35
Silver, Total	ND	25.4	30	118		-	-	75-125	-	35
Sodium, Total	92.J	848	1100	**130**	Q	-	-	75-125	-	35
Thallium, Total	ND	10.2	9.7	95		-	-	75-125	-	35
Vanadium, Total	7.7	42.4	56	114		-	-	75-125	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG623582-4 QC Sample: L1313003-07 Client ID: MS Sample									
Zinc, Total	16.	42.4	56	94	-	-	75-125	-	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG623267-3 QC Sample: L1313382-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG623582-3 QC Sample: L1313003-07 Client ID: DUP Sample					
Aluminum, Total	3100	3000	mg/kg	3	35
Antimony, Total	ND	ND	mg/kg	NC	35
Arsenic, Total	0.45J	0.23J	mg/kg	NC	35
Barium, Total	14.	13	mg/kg	7	35
Beryllium, Total	0.18J	0.17J	mg/kg	NC	35
Cadmium, Total	0.13J	0.14J	mg/kg	NC	35
Calcium, Total	400	390	mg/kg	3	35
Chromium, Total	4.8	4.5	mg/kg	6	35
Cobalt, Total	3.1	2.8	mg/kg	10	35
Copper, Total	5.5	5.3	mg/kg	4	35
Iron, Total	5600	5500	mg/kg	2	35
Lead, Total	2.5J	2.6J	mg/kg	NC	35
Magnesium, Total	1100	970	mg/kg	13	35
Manganese, Total	46.	45	mg/kg	2	35
Nickel, Total	5.0	5.1	mg/kg	2	35
Potassium, Total	220	210	mg/kg	5	35
Selenium, Total	ND	ND	mg/kg	NC	35
Silver, Total	ND	ND	mg/kg	NC	35
Sodium, Total	92.J	98J	mg/kg	NC	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG623582-3 QC Sample: L1313003-07 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	7.7	7.3	mg/kg	5	35
Zinc, Total	16.	14	mg/kg	13	35

INORGANICS
&
MISCELLANEOUS

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-01
Client ID: B-1 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 07/17/13 10:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.6		%	0.100	NA	1	-	07/19/13 21:05	30,2540G	RT

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-02
Client ID: B-5 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 07/17/13 11:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	07/19/13 21:05	30,2540G	RT

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-03
Client ID: B-6 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 07/17/13 12:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	07/19/13 21:05	30,2540G	RT

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-04
Client ID: B-7 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 07/17/13 13:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	07/19/13 21:05	30,2540G	RT

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

SAMPLE RESULTS

Lab ID: L1313489-05
Client ID: B-8 (1-2)
Sample Location: BROOKLYN, NY
Matrix: Soil

Date Collected: 07/17/13 14:00
Date Received: 07/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	07/19/13 21:05	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG623014-1 QC Sample: L1313503-01 Client ID: DUP Sample						
Solids, Total	80.4	80.8	%	0		20

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 07/19/2013 03:09

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1313489-01A	Vial MeOH preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-01B	Vial water preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-01C	Vial water preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-01D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)
L1313489-01E	Glass 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1313489-02A	Vial MeOH preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-02B	Vial water preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-02C	Vial water preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-02D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)
L1313489-02E	Glass 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1313489-03A	Vial MeOH preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-03B	Vial water preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-03C	Vial water preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: HOPE ST.
Project Number: 1124G-13-01

Lab Number: L1313489
Report Date: 07/29/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1313489-03D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)
L1313489-03E	Glass 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1313489-04A	Vial MeOH preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-04B	Vial water preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-04C	Vial water preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-04D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)
L1313489-04E	Glass 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1313489-05A	Vial MeOH preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-05B	Vial water preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-05C	Vial water preserved	A	N/A	2.3	Y	Absent	NYTCL-8260HLW(14)
L1313489-05D	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)
L1313489-05E	Glass 250ml unpreserved	A	N/A	2.3	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	HOPE ST.	**Lab Number:**	L1313489
Project Number:	1124G-13-01	**Report Date:**	07/29/13

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers

Project Name:	HOPE ST.	**Lab Number:**	L1313489
Project Number:	1124G-13-01	**Report Date:**	07/29/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers

Project Name:	HOPE ST.	**Lab Number:**	L1313489
Project Number:	1124G-13-01	**Report Date:**	07/29/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised July 2, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 7/19/13

ALPHA Job #: L1313489

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: FPM Group
Address: 909 Marconi Avenue
Ronkonkoma, NY 11779
Phone: 631-737-6200
Fax: 631-737-2410
Email: b.cancemi@fpm-group.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Hope St
Project Location: Brooklyn, NY
Project #: 1124g-13-01
Project Manager: Ben Cancemi
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 7/25/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	TCL SVOCs	Pesticides 8081A	PCBs 8082	TAL Metals	Sample Specific Comments	TOTAL # BOTTLES
13489.1	B-1 (1-2)	7/17/13	10:00	Soil	JB/GH	✓	✓	✓	✓	✓		5
.2	B-5 (1-2)		11:00			✓	✓	✓	✓	✓		
.3	B-6 (1-2)		12:00			✓	✓	✓	✓	✓		
.4	B-7 (1-2)		13:00			✓	✓	✓	✓	✓		
.5	B-8 (1-2)		14:00			✓	✓	✓	✓	✓		
Container Type						V	G	G	G	G		
Preservative							A	A	A	A		

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
	7/18/13 1202		7/18/13 1202
	7/18/13 19:00		7/18/13 19:00
	7/19/13 0010		7/19/13 0010

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.