
APPENDIX C

Spill Letter March 2017



March 17, 2017

New York State Department of Environmental Conservation
47-40 21st Street
Long Island City, NY 11101-5448

Attention: Ms. June Feng

RE: Spill Summary Letter
NYSDEC Spill # 16-10508
1629 Redfern Avenue
Far Rockaway, New York 11691

Dear Ms. Feng:

CA RICH Consultants, Inc. (CA RICH) is pleased to provide you with this Summary Letter for the above-referenced site. This Letter summarizes the NYSDEC Spill Hotline notification, sampling activities, and spill response for Spill #16-10508.

On February 22, 2017, CA RICH mobilized to the Site to complete an initial walk-through and a limited Phase II Investigation of the property located at 1629 Redfern Avenue, Far Rockaway NY (hereinafter referred to as the "Site" or "Property"). It should be noted that this was the first time the current owner was granted access to the Site by the previous owner. Upon entering the Property, CA RICH identified a 275-gallon Aboveground Storage Tank (AST) leaning on its side. The tank appeared to have leaked some of its remaining waste oil contents on the concrete slab. Further investigation revealed that the tank appeared to have leaked approximately 20-gallons and that the spill was mainly absorbed by absorbent chips. At that time CA RICH called in a spill notification to the NYSDEC Spill Hotline. The Site was assigned Spill # 16-10508.

WORK PERFORMED

1. Prior to the commencement of drilling, the One Call Center was notified to perform utility mark-outs.

2. The surficial spill area was covered in absorbent chips upon initial inspection. The absorbent chips were placed in a drum for proper disposal.
3. CA RICH mobilized a Geoprobe™ direct push device to the area of the Spill. CA RICH then collected a shallow soil sample from 0-2 feet below surface grade and a deeper soil sample from 13-14 feet below grade to confirm that the subsurface was not impacted by the spill. Please see the attached Figure 1, for the boring and spill location.
4. The confirmatory samples were submitted to Alpha Analytical Laboratories (an ELAP-certified laboratory) and analyzed for both Volatile Organic Compounds (VOCs) and Semi-Volatile Organic Compounds (SVOCs) (via EPA methods 8260 and 8270, respectively). Please see the attached Tables 1 and 2 for laboratory results and Appendix A for the full Laboratory Report.

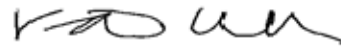
CONCLUSIONS AND RECOMMENDATIONS

- The AST is currently empty and will be cut and removed.
- The laboratory analytical results from both the shallow soil sample and the deep soil sample indicate that soil detections levels are under NYSDEC Unrestricted Use Limits.
- Based upon the sample results, CA RICH recommends that Spill# 16-10508 be closed.

If you have any questions regarding this document, please do not hesitate to call our Office.

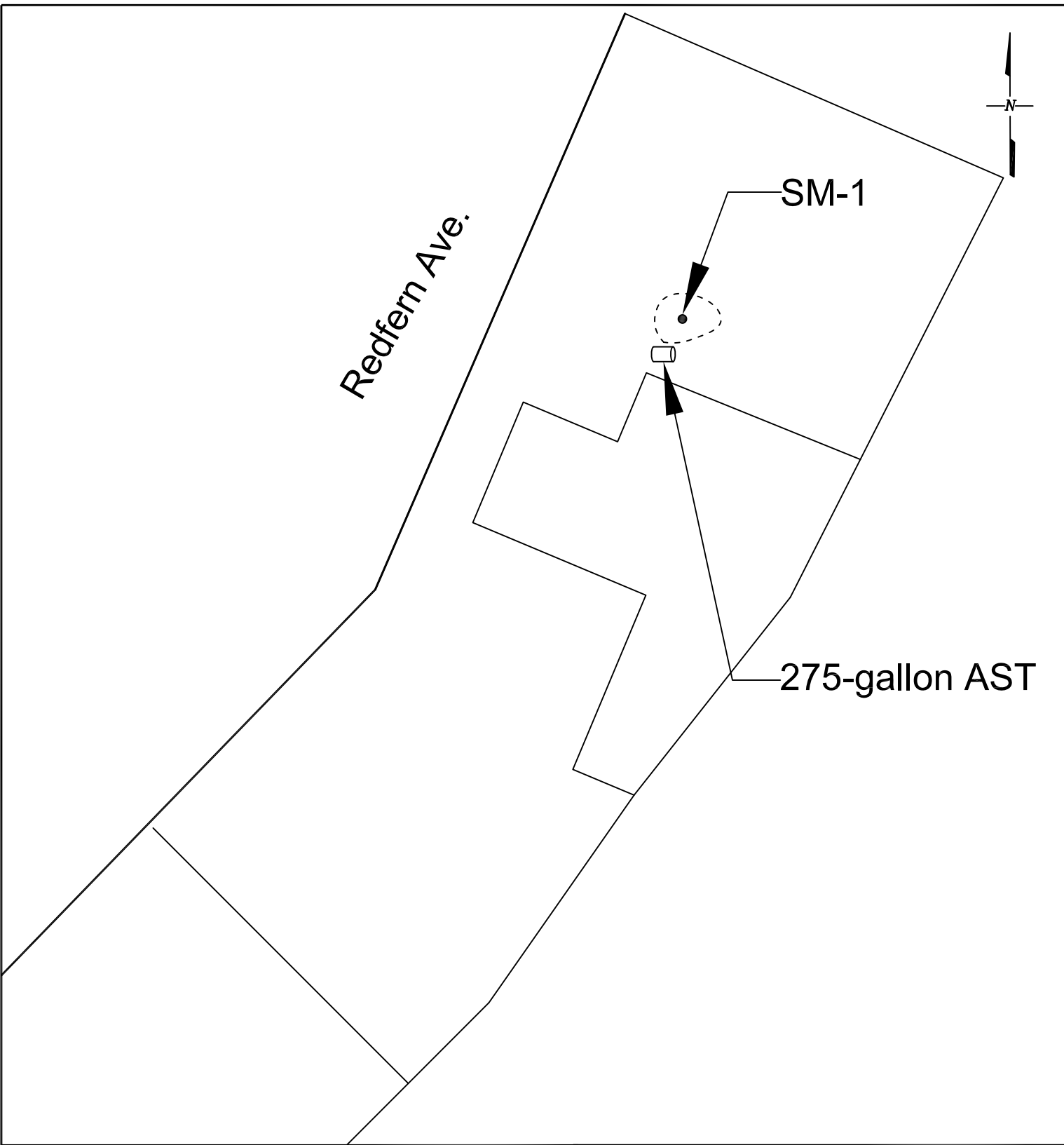
Sincerely,

CA RICH CONSULTANTS, INC.



Victoria Whelan, CPG, QEP
Associate

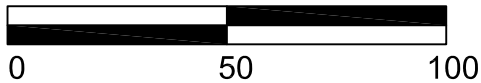
FIGURE



Legend

- Soil Sample
- Spill Outline

Approx. Scale (ft)



CA RICH CONSULTANTS, INC.

Environmental Specialists Since 1982
17 Dupont Street, Plainview, New York 11803

TITLE: Spill and Sample Location		DATE: 3/17/2017
		SCALE: As Shown
FIGURE: 1	1629 Redfern Avenue Far Rockaway, NY	DRAWN BY: T.R.B.
DRAWING NO: 2017-8		APPR. BY: V.W.

TABLES

Table 1
VOCs in Soil Samples
Far Rockaway, New York

LOCATION				SM-1 (0-2)	SM-1 (13-14)
SAMPLING DATE	**NY-RESR	*NY-UNRES	Units	2/22/2017 Results Qual	2/22/2017 Results Qual
Volatile Organics by 8260/5035					
Methylene chloride	51000	50	ug/kg	19 U	11 U
1,1-Dichloroethane	19000	270	ug/kg	2.8 U	1.7 U
Chloroform	10000	370	ug/kg	2.8 U	1.7 U
Carbon tetrachloride	1400	760	ug/kg	1.9 U	1.1 U
1,2-Dichloropropane	NA	NA	ug/kg	6.5 U	3.9 U
Dibromochloromethane	NA	NA	ug/kg	1.9 U	1.1 U
1,1,2-Trichloroethane	NA	NA	ug/kg	2.8 U	1.7 U
Tetrachloroethene	5500	1300	ug/kg	0.8 J	1.1 U
Chlorobenzene	100000	1100	ug/kg	1.9 U	1.1 U
Trichlorofluoromethane	NA	NA	ug/kg	9.3 U	5.6 U
1,2-Dichloroethane	2300	20	ug/kg	1.9 U	1.1 U
1,1,1-Trichloroethane	100000	680	ug/kg	1.9 U	1.1 U
Bromodichloromethane	NA	NA	ug/kg	1.9 U	1.1 U
trans-1,3-Dichloropropene	NA	NA	ug/kg	1.9 U	1.1 U
cis-1,3-Dichloropropene	NA	NA	ug/kg	1.9 U	1.1 U
1,3-Dichloropropene, Total	NA	NA	ug/kg	1.9 U	1.1 U
1,1-Dichloropropene	NA	NA	ug/kg	9.3 U	5.6 U
Bromoform	NA	NA	ug/kg	7.5 U	4.5 U
1,1,2,2-Tetrachloroethane	35000		ug/kg	1.9 U	1.1 U
Benzene	2900	60	ug/kg	1.9 U	1.1 U
Toluene	100000	700	ug/kg	2.8 U	1.7 U
Ethylbenzene	30000	1000	ug/kg	1.9 U	1.1 U
Chloromethane	NA	NA	ug/kg	9.3 U	5.6 U
Bromomethane	NA	NA	ug/kg	3.7 U	2.2 U
Vinyl chloride	210	20	ug/kg	3.7 U	2.2 U
Chloroethane	NA	NA	ug/kg	3.7 U	2.2 U
1,1-Dichloroethene	100000	330	ug/kg	1.9 U	1.1 U
trans-1,2-Dichloroethene	100000	190	ug/kg	2.8 U	1.7 U
Trichloroethene	10000	470	ug/kg	1.9 U	1.1 U
1,2-Dichlorobenzene	100000	1100	ug/kg	9.3 U	5.6 U
1,3-Dichlorobenzene	17000	2400	ug/kg	9.3 U	5.6 U
1,4-Dichlorobenzene	9800	1800	ug/kg	9.3 U	5.6 U
Methyl tert butyl ether	62000	930	ug/kg	3.7 U	2.2 U
p/m-Xylene	NA	NA	ug/kg	3.7 U	2.2 U
o-Xylene	NA	NA	ug/kg	3.7 U	2.2 U
Xylenes, Total	100000	260	ug/kg	3.7 U	2.2 U
cis-1,2-Dichloroethene	59000	250	ug/kg	1.9 U	1.1 U
1,2-Dichloroethene, Total	NA	NA	ug/kg	1.9 U	1.1 U
Dibromomethane	NA	NA	ug/kg	19 U	11 U
Styrene	NA	NA	ug/kg	3.7 U	2.2 U
Dichlorodifluoromethane	NA	NA	ug/kg	19 U	11 U
Acetone	100000	50	ug/kg	36	11 U
Carbon disulfide	100000	NA	ug/kg	19 U	11 U
2-Butanone	100000	120	ug/kg	19 U	11 U
Vinyl acetate	NA	NA	ug/kg	19 U	11 U
4-Methyl-2-pentanone	NA	NA	ug/kg	19 U	11 U
1,2,3-Trichloropropane	80000	NA	ug/kg	19 U	11 U
2-Hexanone	NA	NA	ug/kg	19 U	11 U
Bromochloromethane	NA	NA	ug/kg	9.3 U	5.6 U
2,2-Dichloropropane	NA	NA	ug/kg	9.3 U	5.6 U
1,2-Dibromoethane	NA	NA	ug/kg	7.5 U	4.5 U
1,3-Dichloropropane	NA	NA	ug/kg	9.3 U	5.6 U
1,1,1,2-Tetrachloroethane	NA	NA	ug/kg	1.9 U	1.1 U
Bromobenzene	NA	NA	ug/kg	9.3 U	5.6 U
n-Butylbenzene	100000	12000	ug/kg	1.9 U	1.1 U
sec-Butylbenzene	100000	11000	ug/kg	1.9 U	1.1 U
tert-Butylbenzene	100000	5900	ug/kg	9.3 U	5.6 U
o-Chlorotoluene	NA	NA	ug/kg	9.3 U	5.6 U
p-Chlorotoluene	NA	NA	ug/kg	9.3 U	5.6 U
1,2-Dibromo-3-chloropropane	NA	NA	ug/kg	9.3 U	5.6 U
Hexachlorobutadiene	NA	NA	ug/kg	9.3 U	5.6 U
Isopropylbenzene	100000	NA	ug/kg	1.9 U	1.1 U
p-Isopropyltoluene	NA	NA	ug/kg	1.9 U	1.1 U
Naphthalene	100000	12000	ug/kg	9.3 U	5.6 U
Acrylonitrile	NA	NA	ug/kg	19 U	11 U
n-Propylbenzene	100000	3900	ug/kg	1.9 U	1.1 U
1,2,3-Trichlorobenzene	NA	NA	ug/kg	9.3 U	5.6 U
1,2,4-Trichlorobenzene	NA	NA	ug/kg	9.3 U	5.6 U
1,3,5-Trimethylbenzene	47000	8400	ug/kg	9.3 U	5.6 U
1,2,4-Trimethylbenzene	47000	3600	ug/kg	9.3 U	5.6 U
1,4-Dioxane	9800	100	ug/kg	75 U	45 U
p-Diethylbenzene	NA	NA	ug/kg	7.5 U	4.5 U
p-Ethyltoluene	NA	NA	ug/kg	7.5 U	4.5 U
1,2,4,5-Tetramethylbenzene	NA	NA	ug/kg	7.5 U	4.5 U
Ethyl ether	NA	NA	ug/kg	9.3 U	5.6 U
trans-1,4-Dichloro-2-butene	NA	NA	ug/ka	9.3 U	5.6 U

Notes:

U - analyte not detected

J - value is estimated

NA - not applicable

****NY-RESR: Residential Criteria, New York Restricted use current as of 5/2007**

*NY-UNRES: New York Unrestricted use Criteria current as of 5/2007

Table 2 SVOCs in Soil Samples Far Rockaway, New York

LOCATION				SM-1 (0-2)	SM-1 (13-14)
SAMPLING DATE	**NY-RESR	*NY-UNRES	Units	2/22/2017 Results Qual	2/22/2017 Results Qual
Semivolatile Organics by GC/MS					
Acenaphthene	100000	20000	ug/kg	32 J	140 U
1,2,4-Trichlorobenzene	NA	NA	ug/kg	190 U	170 U
Hexachlorobenzene	410	330	ug/kg	120 U	100 U
Bis(2-chloroethyl)ether	NA	NA	ug/kg	170 U	150 U
2-Chloronaphthalene	NA	NA	ug/kg	190 U	170 U
1,2-Dichlorobenzene	100000	1100	ug/kg	84 J	170 U
1,3-Dichlorobenzene	17000	2400	ug/kg	190 U	170 U
1,4-Dichlorobenzene	9800	1800	ug/kg	190 U	170 U
3,3'-Dichlorobenzidine	NA	NA	ug/kg	190 U	170 U
2,4-Dinitrotoluene	NA	NA	ug/kg	190 U	170 U
2,6-Dinitrotoluene	1030	NA	ug/kg	190 U	170 U
Fluoranthene	100000	100000	ug/kg	800	100 U
4-Chlorophenyl phenyl ether	NA	NA	ug/kg	190 U	170 U
4-Bromophenyl phenyl ether	NA	NA	ug/kg	190 U	170 U
Bis(2-chloroisopropyl)ether	NA	NA	ug/kg	230 U	210 U
Bis(2-chloroethoxy)methane	NA	NA	ug/kg	210 U	180 U
Hexachlorocyclopentadiene	NA	NA	ug/kg	190 U	170 U
Hexachlorocyclopentadiene	NA	NA	ug/kg	550 U	490 U
Hexachloroethane	NA	NA	ug/kg	150 U	140 U
Isophorone	100000	NA	ug/kg	170 U	150 U
Naphthalene	100000	12000	ug/kg	56 J	170 U
Nitrobenzene	3700	NA	ug/kg	170 U	150 U
NDPA/DPA	NA	NA	ug/kg	150 U	140 U
n-Nitrosodi-n-propylamine	NA	NA	ug/kg	190 U	170 U
Bis(2-ethylhexyl)phthalate	50000	NA	ug/kg	2100	170 U
Butyl benzyl phthalate	100000	NA	ug/kg	280	170 U
Di-n-butylphthalate	100000	NA	ug/kg	140 J	170 U
Di-n-octylphthalate	100000	NA	ug/kg	190 U	170 U
Diethyl phthalate	100000	NA	ug/kg	190 U	170 U
Dimethyl phthalate	100000	NA	ug/kg	190 U	170 U
Benzo(a)anthracene	1000	1000	ug/kg	420	100 U
Benzo(a)pyrene	1000	1000	ug/kg	500	140 U
Benzo(b)fluoranthene	1000	1000	ug/kg	670	100 U
Benzo(k)fluoranthene	1000	800	ug/kg	180	100 U
Chrysene	1000	1000	ug/kg	440	100 U
Acenaphthylene	100000	100000	ug/kg	53 J	140 U
Anthracene	100000	100000	ug/kg	120	100 U
Benzo(ghi)perylene	100000	100000	ug/kg	390	140 U
Fluorene	100000	30000	ug/kg	58 J	170 U
Phenanthrene	100000	100000	ug/kg	380	100 U
Dibenzo(a,h)anthracene	330	330	ug/kg	88 J	100 U
Indeno(1,2,3-cd)pyrene	500	500	ug/kg	360	140 U
Pyrene	100000	100000	ug/kg	830	100 U
Biphenyl	NA	NA	ug/kg	440 U	390 U
4-Chloroaniline	100000	NA	ug/kg	190 U	170 U
2-Nitroaniline	NA	NA	ug/kg	190 U	170 U
3-Nitroaniline	NA	NA	ug/kg	190 U	170 U
4-Nitroaniline	NA	NA	ug/kg	190 U	170 U
Dibenzofuran	14000	7000	ug/kg	38 J	170 U
2-Methylnaphthalene	410	NA	ug/kg	58 J	210 U
1,2,4,5-Tetrachlorobenzene	NA	NA	ug/kg	190 U	170 U
Acetophenone	NA	NA	ug/kg	190 U	170 U
2,4,6-Trichlorophenol	NA	NA	ug/kg	120 U	100 U
p-Chloro-m-cresol	NA	NA	ug/kg	190 U	170 U
2-Chlorophenol	100000	NA	ug/kg	190 U	170 U
2,4-Dichlorophenol	100000	NA	ug/kg	170 U	150 U
2,4-Dimethylphenol	NA	NA	ug/kg	190 U	170 U
2-Nitrophenol	NA	NA	ug/kg	410 U	370 U
4-Nitrophenol	NA	NA	ug/kg	270 U	240 U
2,4-Dinitrophenol	100000	NA	ug/kg	920 U	820 U
4,6-Dinitro-o-cresol	NA	NA	ug/kg	500 U	450 U
Pentachlorophenol	2400	800	ug/kg	150 U	140 U
Phenol	100000	330	ug/kg	190 U	170 U
2-Methylphenol	100000	330	ug/kg	190 U	170 U
3-Methylphenol/4-Methylphenol	34000	330	ug/kg	280 U	250 U
2,4,5-Trichlorophenol	100000	NA	ug/kg	190 U	170 U
Benzoic Acid	100000	NA	ug/kg	620 U	560 U
Benzyl Alcohol	NA	NA	ug/kg	190 U	170 U
Carbazole	NA	NA	ug/kg	63 J	170 U

Notes:

U - analyte not detected

J - value is estimated

NA - not applicable

**NY-RESB: Residential Criteria. New York Restricted use current as of 5/2007

*NY-UNRES: New York Unrestricted use Criteria current as of 5/2007

APPENDIX A

Laboratory Analytical



ANALYTICAL REPORT

Lab Number:	L1705771
Client:	CA RICH CONSULTANTS, INC. 17 Dupont St Plainview, NY 11803
ATTN:	Thomas Brown
Phone:	(516) 576-8844
Project Name:	PHIPPS/FAR ROCKAWAY
Project Number:	Not Specified
Report Date:	03/02/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), NJ NELAP (MA015), CT (PH-0141), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-13-00067), USFWS (Permit #LE2069641).

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



Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1705771-01	SM-SURFACE	SOIL	FAR ROCKAWAY, NY	02/22/17 08:45	02/23/17
L1705771-02	SM-1 (0-2)	SOIL	FAR ROCKAWAY, NY	02/22/17 09:00	02/23/17
L1705771-03	SM-1 (13-14)	SOIL	FAR ROCKAWAY, NY	02/22/17 09:15	02/23/17
L1705771-04	SM-2 (0-2)	SOIL	FAR ROCKAWAY, NY	02/22/17 13:30	02/23/17
L1705771-05	SM-2 (5-7)	SOIL	FAR ROCKAWAY, NY	02/22/17 13:40	02/23/17
L1705771-06	BUS-1 (0-2)	SOIL	FAR ROCKAWAY, NY	02/22/17 10:55	02/23/17
L1705771-07	BUS-1 (13-14)	SOIL	FAR ROCKAWAY, NY	02/22/17 11:00	02/23/17
L1705771-08	BUS-2 (0-2)	SOIL	FAR ROCKAWAY, NY	02/22/17 11:55	02/23/17
L1705771-09	BUS-2 (10-12)	SOIL	FAR ROCKAWAY, NY	02/22/17 12:10	02/23/17
L1705771-10	BUS-3	SOIL	FAR ROCKAWAY, NY	02/22/17 11:45	02/23/17

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC 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. 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 (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar 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. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Case Narrative (continued)

Report Submission

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

Semivolatile Organics

The WG981120-2 LCS recovery, associated with L1705771-01 through -08 and -10, is below the acceptance criteria for benzoic acid (0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

PCBs

L1705771-02 and -04: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Metals

L1705771-01 through -10: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG980872-3 MS recoveries for aluminum (3690%), calcium (462%), iron (231%) and lead (45%), performed on L1705771-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG980872-3 MS recoveries, performed on L1705771-01, are outside the acceptance criteria for copper (138%), sodium (127%) and zinc (69%). A post digestion spike was performed and yielded unacceptable recoveries for sodium (136%) and zinc (68%); all other compounds were within acceptance criteria. This has been attributed to sample matrix.

The WG980872-4 Laboratory Duplicate RPDs, performed on L1705771-01, are outside the acceptance criteria for arsenic (54%), copper (25%), iron (89%), magnesium (33%) and manganese (72%). The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

The WG980971-4 Laboratory Duplicate RPD, performed on L1705771-01, is outside the acceptance criteria

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Case Narrative (continued)

for mercury (31%). The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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:

 Cristin Walker

Title: Technical Director/Representative

Date: 03/02/17

ORGANICS

VOLATILES

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-01
Client ID: SM-SURFACE
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/28/17 11:07
Analyst: JC
Percent Solids: 89%

Date Collected: 02/22/17 08:45
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	1.1	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.08	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.99	0.21	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.99	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30	1
Tetrachloroethene	ND		ug/kg	0.99	0.14	1
Chlorobenzene	ND		ug/kg	0.99	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.11	1
Bromodichloromethane	ND		ug/kg	0.99	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.12	1
1,3-Dichloropropene, Total	ND		ug/kg	0.99	0.12	1
1,1-Dichloropropene	ND		ug/kg	4.9	0.14	1
Bromoform	ND		ug/kg	4.0	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.10	1
Benzene	ND		ug/kg	0.99	0.12	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.99	0.12	1
Chloromethane	ND		ug/kg	4.9	0.29	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.12	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21	1
Trichloroethene	ND		ug/kg	0.99	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.15	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-01

Date Collected: 02/22/17 08:45

Client ID: SM-SURFACE

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.14	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.08	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.33	1
Xylenes, Total	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.14	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	9.9	0.16	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.19	1
Acetone	ND		ug/kg	9.9	1.0	1
Carbon disulfide	ND		ug/kg	9.9	1.1	1
2-Butanone	ND		ug/kg	9.9	0.27	1
Vinyl acetate	ND		ug/kg	9.9	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.9	0.16	1
2-Hexanone	ND		ug/kg	9.9	0.66	1
Bromochloromethane	ND		ug/kg	4.9	0.27	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.22	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.31	1
Bromobenzene	ND		ug/kg	4.9	0.20	1
n-Butylbenzene	ND		ug/kg	0.99	0.11	1
sec-Butylbenzene	ND		ug/kg	0.99	0.12	1
tert-Butylbenzene	ND		ug/kg	4.9	0.13	1
o-Chlorotoluene	ND		ug/kg	4.9	0.16	1
p-Chlorotoluene	ND		ug/kg	4.9	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.22	1
Isopropylbenzene	ND		ug/kg	0.99	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.12	1
Naphthalene	ND		ug/kg	4.9	0.14	1
Acrylonitrile	ND		ug/kg	9.9	0.51	1
n-Propylbenzene	ND		ug/kg	0.99	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.14	1

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-01
Client ID: SM-SURFACE
Sample Location: FAR ROCKAWAY, NY

Date Collected: 02/22/17 08:45
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	4.9	0.14	1
1,4-Dioxane	ND		ug/kg	40	14.	1
p-Diethylbenzene	ND		ug/kg	4.0	0.16	1
p-Ethyltoluene	ND		ug/kg	4.0	0.12	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13	1
Ethyl ether	ND		ug/kg	4.9	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-02
Client ID: SM-1 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/28/17 11:33
Analyst: JC
Percent Solids: 86%

Date Collected: 02/22/17 09:00
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	19	2.1	1
1,1-Dichloroethane	ND		ug/kg	2.8	0.16	1
Chloroform	ND		ug/kg	2.8	0.69	1
Carbon tetrachloride	ND		ug/kg	1.9	0.39	1
1,2-Dichloropropane	ND		ug/kg	6.5	0.42	1
Dibromochloromethane	ND		ug/kg	1.9	0.29	1
1,1,2-Trichloroethane	ND		ug/kg	2.8	0.57	1
Tetrachloroethene	0.80	J	ug/kg	1.9	0.26	1
Chlorobenzene	ND		ug/kg	1.9	0.65	1
Trichlorofluoromethane	ND		ug/kg	9.3	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	1.9	0.21	1
Bromodichloromethane	ND		ug/kg	1.9	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.9	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.9	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	1.9	0.22	1
1,1-Dichloropropene	ND		ug/kg	9.3	0.26	1
Bromoform	ND		ug/kg	7.5	0.44	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	0.19	1
Benzene	ND		ug/kg	1.9	0.22	1
Toluene	ND		ug/kg	2.8	0.36	1
Ethylbenzene	ND		ug/kg	1.9	0.24	1
Chloromethane	ND		ug/kg	9.3	0.55	1
Bromomethane	ND		ug/kg	3.7	0.63	1
Vinyl chloride	ND		ug/kg	3.7	0.22	1
Chloroethane	ND		ug/kg	3.7	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.49	1
trans-1,2-Dichloroethene	ND		ug/kg	2.8	0.40	1
Trichloroethene	ND		ug/kg	1.9	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	9.3	0.28	1



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-02

Date Collected: 02/22/17 09:00

Client ID: SM-1 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	9.3	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	9.3	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.7	0.16	1
p/m-Xylene	ND		ug/kg	3.7	0.66	1
o-Xylene	ND		ug/kg	3.7	0.63	1
Xylenes, Total	ND		ug/kg	3.7	0.63	1
cis-1,2-Dichloroethene	ND		ug/kg	1.9	0.27	1
1,2-Dichloroethene, Total	ND		ug/kg	1.9	0.27	1
Dibromomethane	ND		ug/kg	19	0.30	1
Styrene	ND		ug/kg	3.7	0.75	1
Dichlorodifluoromethane	ND		ug/kg	19	0.36	1
Acetone	36		ug/kg	19	1.9	1
Carbon disulfide	ND		ug/kg	19	2.0	1
2-Butanone	ND		ug/kg	19	0.51	1
Vinyl acetate	ND		ug/kg	19	0.25	1
4-Methyl-2-pentanone	ND		ug/kg	19	0.46	1
1,2,3-Trichloropropane	ND		ug/kg	19	0.30	1
2-Hexanone	ND		ug/kg	19	1.2	1
Bromochloromethane	ND		ug/kg	9.3	0.52	1
2,2-Dichloropropane	ND		ug/kg	9.3	0.42	1
1,2-Dibromoethane	ND		ug/kg	7.5	0.32	1
1,3-Dichloropropane	ND		ug/kg	9.3	0.27	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.9	0.59	1
Bromobenzene	ND		ug/kg	9.3	0.39	1
n-Butylbenzene	ND		ug/kg	1.9	0.21	1
sec-Butylbenzene	ND		ug/kg	1.9	0.23	1
tert-Butylbenzene	ND		ug/kg	9.3	0.25	1
o-Chlorotoluene	ND		ug/kg	9.3	0.30	1
p-Chlorotoluene	ND		ug/kg	9.3	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.3	0.74	1
Hexachlorobutadiene	ND		ug/kg	9.3	0.42	1
Isopropylbenzene	ND		ug/kg	1.9	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.9	0.23	1
Naphthalene	ND		ug/kg	9.3	0.26	1
Acrylonitrile	ND		ug/kg	19	0.96	1
n-Propylbenzene	ND		ug/kg	1.9	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	9.3	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.3	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	9.3	0.27	1

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-02
Client ID: SM-1 (0-2)
Sample Location: FAR ROCKAWAY, NY

Date Collected: 02/22/17 09:00
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	9.3	0.26	1
1,4-Dioxane	ND		ug/kg	75	27.	1
p-Diethylbenzene	ND		ug/kg	7.5	0.30	1
p-Ethyltoluene	ND		ug/kg	7.5	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	7.5	0.24	1
Ethyl ether	ND		ug/kg	9.3	0.48	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.3	0.73	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-03
Client ID: SM-1 (13-14)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/28/17 11:59
Analyst: JC
Percent Solids: 95%

Date Collected: 02/22/17 09:15
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.16	1
Bromoform	ND		ug/kg	4.5	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.6	0.33	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.17	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-03

Date Collected: 02/22/17 09:15

Client ID: SM-1 (13-14)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.39	1
o-Xylene	ND		ug/kg	2.2	0.38	1
Xylenes, Total	ND		ug/kg	2.2	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.2	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	ND		ug/kg	11	1.2	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
Vinyl acetate	ND		ug/kg	11	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.6	0.31	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.25	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.19	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.6	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.14	1
tert-Butylbenzene	ND		ug/kg	5.6	0.15	1
o-Chlorotoluene	ND		ug/kg	5.6	0.18	1
p-Chlorotoluene	ND		ug/kg	5.6	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.25	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.6	0.15	1
Acrylonitrile	ND		ug/kg	11	0.57	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.16	1

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-03
Client ID: SM-1 (13-14)
Sample Location: FAR ROCKAWAY, NY

Date Collected: 02/22/17 09:15
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.16	1
1,4-Dioxane	ND		ug/kg	45	16.	1
p-Diethylbenzene	ND		ug/kg	4.5	0.18	1
p-Ethyltoluene	ND		ug/kg	4.5	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.14	1
Ethyl ether	ND		ug/kg	5.6	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-04
Client ID: SM-2 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/28/17 12:25
Analyst: JC
Percent Solids: 81%

Date Collected: 02/22/17 13:30
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	1.5	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.12	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.4	0.28	1
1,2-Dichloropropane	ND		ug/kg	4.7	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.41	1
Tetrachloroethene	0.37	J	ug/kg	1.4	0.19	1
Chlorobenzene	ND		ug/kg	1.4	0.47	1
Trichlorofluoromethane	ND		ug/kg	6.8	0.52	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.15	1
Bromodichloromethane	ND		ug/kg	1.4	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.16	1
1,1-Dichloropropene	ND		ug/kg	6.8	0.19	1
Bromoform	ND		ug/kg	5.4	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.14	1
Benzene	ND		ug/kg	1.4	0.16	1
Toluene	ND		ug/kg	2.0	0.26	1
Ethylbenzene	ND		ug/kg	1.4	0.17	1
Chloromethane	ND		ug/kg	6.8	0.40	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.16	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.29	1
Trichloroethene	ND		ug/kg	1.4	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.21	1



Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**SAMPLE RESULTS****Lab ID:** L1705771-04**Date Collected:** 02/22/17 13:30**Client ID:** SM-2 (0-2)**Date Received:** 02/23/17**Sample Location:** FAR ROCKAWAY, NY**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.11	1
p/m-Xylene	ND		ug/kg	2.7	0.47	1
o-Xylene	ND		ug/kg	2.7	0.46	1
Xylenes, Total	ND		ug/kg	2.7	0.46	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	14	0.22	1
Styrene	ND		ug/kg	2.7	0.54	1
Dichlorodifluoromethane	ND		ug/kg	14	0.26	1
Acetone	ND		ug/kg	14	1.4	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.37	1
Vinyl acetate	ND		ug/kg	14	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.22	1
2-Hexanone	ND		ug/kg	14	0.90	1
Bromochloromethane	ND		ug/kg	6.8	0.37	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.30	1
1,2-Dibromoethane	ND		ug/kg	5.4	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.43	1
Bromobenzene	ND		ug/kg	6.8	0.28	1
n-Butylbenzene	ND		ug/kg	1.4	0.16	1
sec-Butylbenzene	ND		ug/kg	1.4	0.16	1
tert-Butylbenzene	ND		ug/kg	6.8	0.18	1
o-Chlorotoluene	ND		ug/kg	6.8	0.22	1
p-Chlorotoluene	ND		ug/kg	6.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	0.53	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.31	1
Isopropylbenzene	ND		ug/kg	1.4	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.17	1
Naphthalene	ND		ug/kg	6.8	0.19	1
Acrylonitrile	ND		ug/kg	14	0.69	1
n-Propylbenzene	ND		ug/kg	1.4	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.8	0.19	1

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-04
Client ID: SM-2 (0-2)
Sample Location: FAR ROCKAWAY, NY

Date Collected: 02/22/17 13:30
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.8	0.19	1
1,4-Dioxane	ND		ug/kg	54	19.	1
p-Diethylbenzene	ND		ug/kg	5.4	0.22	1
p-Ethyltoluene	ND		ug/kg	5.4	0.17	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.4	0.18	1
Ethyl ether	ND		ug/kg	6.8	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-05
Client ID: SM-2 (5-7)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/28/17 12:51
Analyst: JC
Percent Solids: 90%

Date Collected: 02/22/17 13:40
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.5	1.0	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.08	1
Chloroform	ND		ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.95	0.20	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.22	1
Dibromochloromethane	ND		ug/kg	0.95	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.95	0.13	1
Chlorobenzene	ND		ug/kg	0.95	0.33	1
Trichlorofluoromethane	0.44	J	ug/kg	4.8	0.37	1
1,2-Dichloroethane	ND		ug/kg	0.95	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	0.95	0.10	1
Bromodichloromethane	ND		ug/kg	0.95	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.95	0.11	1
1,3-Dichloropropene, Total	ND		ug/kg	0.95	0.11	1
1,1-Dichloropropene	ND		ug/kg	4.8	0.13	1
Bromoform	ND		ug/kg	3.8	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.95	0.10	1
Benzene	ND		ug/kg	0.95	0.11	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.95	0.12	1
Chloromethane	ND		ug/kg	4.8	0.28	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.11	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.95	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Trichloroethene	ND		ug/kg	0.95	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	4.8	0.15	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-05

Date Collected: 02/22/17 13:40

Client ID: SM-2 (5-7)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	4.8	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.08	1
p/m-Xylene	ND		ug/kg	1.9	0.33	1
o-Xylene	ND		ug/kg	1.9	0.32	1
Xylenes, Total	ND		ug/kg	1.9	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	0.95	0.14	1
1,2-Dichloroethene, Total	ND		ug/kg	0.95	0.14	1
Dibromomethane	ND		ug/kg	9.5	0.16	1
Styrene	ND		ug/kg	1.9	0.38	1
Dichlorodifluoromethane	ND		ug/kg	9.5	0.18	1
Acetone	ND		ug/kg	9.5	0.99	1
Carbon disulfide	ND		ug/kg	9.5	1.0	1
2-Butanone	ND		ug/kg	9.5	0.26	1
Vinyl acetate	ND		ug/kg	9.5	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	9.5	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	9.5	0.16	1
2-Hexanone	ND		ug/kg	9.5	0.64	1
Bromochloromethane	ND		ug/kg	4.8	0.26	1
2,2-Dichloropropane	ND		ug/kg	4.8	0.22	1
1,2-Dibromoethane	ND		ug/kg	3.8	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.8	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.95	0.30	1
Bromobenzene	ND		ug/kg	4.8	0.20	1
n-Butylbenzene	ND		ug/kg	0.95	0.11	1
sec-Butylbenzene	ND		ug/kg	0.95	0.12	1
tert-Butylbenzene	ND		ug/kg	4.8	0.13	1
o-Chlorotoluene	ND		ug/kg	4.8	0.15	1
p-Chlorotoluene	ND		ug/kg	4.8	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	0.38	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.22	1
Isopropylbenzene	ND		ug/kg	0.95	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.95	0.12	1
Naphthalene	ND		ug/kg	4.8	0.13	1
Acrylonitrile	ND		ug/kg	9.5	0.49	1
n-Propylbenzene	ND		ug/kg	0.95	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.8	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.8	0.17	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.8	0.14	1

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-05
Client ID: SM-2 (5-7)
Sample Location: FAR ROCKAWAY, NY

Date Collected: 02/22/17 13:40
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	4.8	0.13	1
1,4-Dioxane	ND		ug/kg	38	14.	1
p-Diethylbenzene	ND		ug/kg	3.8	0.15	1
p-Ethyltoluene	ND		ug/kg	3.8	0.12	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.8	0.12	1
Ethyl ether	ND		ug/kg	4.8	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	108		70-130

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-06
Client ID: BUS-1 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/28/17 13:17
Analyst: JC
Percent Solids: 89%

Date Collected: 02/22/17 10:55
Date Received: 02/23/17
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	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	15		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.9	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	5.9	0.17	1
Bromoform	ND		ug/kg	4.7	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	5.9	0.34	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	0.18	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-06

Date Collected: 02/22/17 10:55

Client ID: BUS-1 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.9	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	5.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.41	1
o-Xylene	ND		ug/kg	2.4	0.40	1
Xylenes, Total	ND		ug/kg	2.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.19	1
Styrene	ND		ug/kg	2.4	0.47	1
Dichlorodifluoromethane	ND		ug/kg	12	0.22	1
Acetone	ND		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.32	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.19	1
2-Hexanone	ND		ug/kg	12	0.78	1
Bromochloromethane	ND		ug/kg	5.9	0.32	1
2,2-Dichloropropane	ND		ug/kg	5.9	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.9	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.9	0.24	1
n-Butylbenzene	ND		ug/kg	1.2	0.13	1
sec-Butylbenzene	ND		ug/kg	1.2	0.14	1
tert-Butylbenzene	ND		ug/kg	5.9	0.16	1
o-Chlorotoluene	ND		ug/kg	5.9	0.19	1
p-Chlorotoluene	ND		ug/kg	5.9	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	0.46	1
Hexachlorobutadiene	ND		ug/kg	5.9	0.27	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	5.9	0.16	1
Acrylonitrile	ND		ug/kg	12	0.60	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.9	0.17	1

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-06
Client ID: BUS-1 (0-2)
Sample Location: FAR ROCKAWAY, NY

Date Collected: 02/22/17 10:55
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.9	0.17	1
1,4-Dioxane	ND		ug/kg	47	17.	1
p-Diethylbenzene	ND		ug/kg	4.7	0.19	1
p-Ethyltoluene	ND		ug/kg	4.7	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.7	0.15	1
Ethyl ether	ND		ug/kg	5.9	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-07
Client ID: BUS-1 (13-14)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/28/17 13:43
Analyst: JC
Percent Solids: 99%

Date Collected: 02/22/17 11:00
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	1.5	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.12	1
Chloroform	ND		ug/kg	2.0	0.51	1
Carbon tetrachloride	ND		ug/kg	1.4	0.29	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.42	1
Tetrachloroethene	ND		ug/kg	1.4	0.19	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	6.8	0.53	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.15	1
Bromodichloromethane	ND		ug/kg	1.4	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.16	1
1,1-Dichloropropene	ND		ug/kg	6.8	0.19	1
Bromoform	ND		ug/kg	5.5	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.14	1
Benzene	ND		ug/kg	1.4	0.16	1
Toluene	ND		ug/kg	2.0	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.17	1
Chloromethane	ND		ug/kg	6.8	0.40	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.16	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.29	1
Trichloroethene	ND		ug/kg	1.4	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.21	1



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-07

Date Collected: 02/22/17 11:00

Client ID: BUS-1 (13-14)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.12	1
p/m-Xylene	ND		ug/kg	2.7	0.48	1
o-Xylene	ND		ug/kg	2.7	0.46	1
Xylenes, Total	ND		ug/kg	2.7	0.46	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.20	1
Dibromomethane	ND		ug/kg	14	0.22	1
Styrene	ND		ug/kg	2.7	0.55	1
Dichlorodifluoromethane	ND		ug/kg	14	0.26	1
Acetone	ND		ug/kg	14	1.4	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.37	1
Vinyl acetate	ND		ug/kg	14	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.22	1
2-Hexanone	ND		ug/kg	14	0.91	1
Bromochloromethane	ND		ug/kg	6.8	0.38	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.31	1
1,2-Dibromoethane	ND		ug/kg	5.5	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.44	1
Bromobenzene	ND		ug/kg	6.8	0.28	1
n-Butylbenzene	ND		ug/kg	1.4	0.16	1
sec-Butylbenzene	ND		ug/kg	1.4	0.17	1
tert-Butylbenzene	ND		ug/kg	6.8	0.18	1
o-Chlorotoluene	ND		ug/kg	6.8	0.22	1
p-Chlorotoluene	ND		ug/kg	6.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	0.54	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.31	1
Isopropylbenzene	ND		ug/kg	1.4	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.17	1
Naphthalene	ND		ug/kg	6.8	0.19	1
Acrylonitrile	ND		ug/kg	14	0.70	1
n-Propylbenzene	ND		ug/kg	1.4	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.8	0.20	1

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-07
Client ID: BUS-1 (13-14)
Sample Location: FAR ROCKAWAY, NY

Date Collected: 02/22/17 11:00
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.8	0.19	1
1,4-Dioxane	ND		ug/kg	55	20.	1
p-Diethylbenzene	ND		ug/kg	5.5	0.22	1
p-Ethyltoluene	ND		ug/kg	5.5	0.17	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.5	0.18	1
Ethyl ether	ND		ug/kg	6.8	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	0.54	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	105		70-130

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-08
Client ID: BUS-2 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/28/17 14:09
Analyst: JC
Percent Solids: 91%

Date Collected: 02/22/17 11:55
Date Received: 02/23/17
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	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	6.1	0.17	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.1	0.36	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.19	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-08

Date Collected: 02/22/17 11:55

Client ID: BUS-2 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.43	1
o-Xylene	ND		ug/kg	2.4	0.41	1
Xylenes, Total	ND		ug/kg	2.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.18	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.33	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.20	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.1	0.34	1
2,2-Dichloropropane	ND		ug/kg	6.1	0.28	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.21	1
1,3-Dichloropropane	ND		ug/kg	6.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.39	1
Bromobenzene	ND		ug/kg	6.1	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.1	0.17	1
o-Chlorotoluene	ND		ug/kg	6.1	0.20	1
p-Chlorotoluene	ND		ug/kg	6.1	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.49	1
Hexachlorobutadiene	ND		ug/kg	6.1	0.28	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.1	0.17	1
Acrylonitrile	ND		ug/kg	12	0.63	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	0.18	1

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-08
Client ID: BUS-2 (0-2)
Sample Location: FAR ROCKAWAY, NY

Date Collected: 02/22/17 11:55
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	0.17	1
1,4-Dioxane	ND		ug/kg	49	18.	1
p-Diethylbenzene	ND		ug/kg	4.9	0.20	1
p-Ethyltoluene	ND		ug/kg	4.9	0.15	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.9	0.16	1
Ethyl ether	ND		ug/kg	6.1	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-09
Client ID: BUS-2 (10-12)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/28/17 14:35
Analyst: JC
Percent Solids: 96%

Date Collected: 02/22/17 12:10
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	1.1	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.08	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.99	0.21	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.99	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30	1
Tetrachloroethene	ND		ug/kg	0.99	0.14	1
Chlorobenzene	ND		ug/kg	0.99	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.11	1
Bromodichloromethane	ND		ug/kg	0.99	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.12	1
1,3-Dichloropropene, Total	ND		ug/kg	0.99	0.12	1
1,1-Dichloropropene	ND		ug/kg	4.9	0.14	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.10	1
Benzene	ND		ug/kg	0.99	0.12	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.99	0.12	1
Chloromethane	ND		ug/kg	4.9	0.29	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.12	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21	1
Trichloroethene	ND		ug/kg	0.99	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.15	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-09

Date Collected: 02/22/17 12:10

Client ID: BUS-2 (10-12)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.14	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.08	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.33	1
Xylenes, Total	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.14	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	9.9	0.16	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.19	1
Acetone	ND		ug/kg	9.9	1.0	1
Carbon disulfide	ND		ug/kg	9.9	1.1	1
2-Butanone	ND		ug/kg	9.9	0.27	1
Vinyl acetate	ND		ug/kg	9.9	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.9	0.16	1
2-Hexanone	ND		ug/kg	9.9	0.66	1
Bromochloromethane	ND		ug/kg	4.9	0.27	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.22	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.31	1
Bromobenzene	ND		ug/kg	4.9	0.20	1
n-Butylbenzene	ND		ug/kg	0.99	0.11	1
sec-Butylbenzene	ND		ug/kg	0.99	0.12	1
tert-Butylbenzene	ND		ug/kg	4.9	0.13	1
o-Chlorotoluene	ND		ug/kg	4.9	0.16	1
p-Chlorotoluene	ND		ug/kg	4.9	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.22	1
Isopropylbenzene	ND		ug/kg	0.99	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.12	1
Naphthalene	ND		ug/kg	4.9	0.14	1
Acrylonitrile	ND		ug/kg	9.9	0.51	1
n-Propylbenzene	ND		ug/kg	0.99	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.14	1

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-09
Client ID: BUS-2 (10-12)
Sample Location: FAR ROCKAWAY, NY

Date Collected: 02/22/17 12:10
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	4.9	0.14	1
1,4-Dioxane	ND		ug/kg	39	14.	1
p-Diethylbenzene	ND		ug/kg	3.9	0.16	1
p-Ethyltoluene	ND		ug/kg	3.9	0.12	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.9	0.13	1
Ethyl ether	ND		ug/kg	4.9	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-10
Client ID: BUS-3
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/28/17 15:01
Analyst: JC
Percent Solids: 85%

Date Collected: 02/22/17 11:45
Date Received: 02/23/17
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	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.11	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.38	1
Tetrachloroethene	0.38	J	ug/kg	1.2	0.18	1
Chlorobenzene	ND		ug/kg	1.2	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.14	1
Bromodichloromethane	ND		ug/kg	1.2	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.15	1
1,1-Dichloropropene	ND		ug/kg	6.2	0.18	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.13	1
Benzene	ND		ug/kg	1.2	0.15	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	6.2	0.37	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.15	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.19	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-10

Date Collected: 02/22/17 11:45

Client ID: BUS-3

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.10	1
p/m-Xylene	ND		ug/kg	2.5	0.44	1
o-Xylene	ND		ug/kg	2.5	0.42	1
Xylenes, Total	ND		ug/kg	2.5	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.18	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.24	1
Acetone	ND		ug/kg	12	1.3	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.34	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.20	1
2-Hexanone	ND		ug/kg	12	0.83	1
Bromochloromethane	ND		ug/kg	6.2	0.34	1
2,2-Dichloropropane	ND		ug/kg	6.2	0.28	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.22	1
1,3-Dichloropropane	ND		ug/kg	6.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.40	1
Bromobenzene	ND		ug/kg	6.2	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.2	0.17	1
o-Chlorotoluene	ND		ug/kg	6.2	0.20	1
p-Chlorotoluene	ND		ug/kg	6.2	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.50	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.28	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.16	1
Naphthalene	ND		ug/kg	6.2	0.17	1
Acrylonitrile	ND		ug/kg	12	0.64	1
n-Propylbenzene	ND		ug/kg	1.2	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.18	1

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-10
Client ID: BUS-3
Sample Location: FAR ROCKAWAY, NY

Date Collected: 02/22/17 11:45
Date Received: 02/23/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.18	1
1,4-Dioxane	ND		ug/kg	50	18.	1
p-Diethylbenzene	ND		ug/kg	5.0	0.20	1
p-Ethyltoluene	ND		ug/kg	5.0	0.16	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.16	1
Ethyl ether	ND		ug/kg	6.2	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	106		70-130

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/28/17 08:31
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-10 Batch: WG981737-5					
Methylene chloride	1.7	J	ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
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	0.15
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	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/28/17 08:31
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-10 Batch: WG981737-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
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	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
o-Chlorotoluene	ND		ug/kg	5.0	0.16

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/28/17 08:31
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-10 Batch: WG981737-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-10 Batch: WG981737-3 WG981737-4								
Methylene chloride	112		107		70-130	5		30
1,1-Dichloroethane	105		99		70-130	6		30
Chloroform	102		99		70-130	3		30
Carbon tetrachloride	110		104		70-130	6		30
1,2-Dichloropropane	101		96		70-130	5		30
Dibromochloromethane	90		85		70-130	6		30
1,1,2-Trichloroethane	91		86		70-130	6		30
Tetrachloroethene	99		88		70-130	12		30
Chlorobenzene	93		90		70-130	3		30
Trichlorofluoromethane	116		118		70-139	2		30
1,2-Dichloroethane	102		97		70-130	5		30
1,1,1-Trichloroethane	106		100		70-130	6		30
Bromodichloromethane	101		97		70-130	4		30
trans-1,3-Dichloropropene	96		90		70-130	6		30
cis-1,3-Dichloropropene	98		100		70-130	2		30
1,1-Dichloropropene	110		104		70-130	6		30
Bromoform	84		81		70-130	4		30
1,1,2,2-Tetrachloroethane	84		84		70-130	0		30
Benzene	104		99		70-130	5		30
Toluene	95		88		70-130	8		30
Ethylbenzene	94		91		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	RPD	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-10 Batch: WG981737-3 WG981737-4								
Chloromethane	110		110		52-130		0	30
Bromomethane	90		94		57-147		4	30
Vinyl chloride	121		118		67-130		3	30
Chloroethane	127		128		50-151		1	30
1,1-Dichloroethene	109		107		65-135		2	30
trans-1,2-Dichloroethene	108		100		70-130		8	30
Trichloroethene	103		99		70-130		4	30
1,2-Dichlorobenzene	89		86		70-130		3	30
1,3-Dichlorobenzene	90		88		70-130		2	30
1,4-Dichlorobenzene	89		87		70-130		2	30
Methyl tert butyl ether	108		103		66-130		5	30
p/m-Xylene	95		92		70-130		3	30
o-Xylene	94		92		70-130		2	30
cis-1,2-Dichloroethene	103		98		70-130		5	30
Dibromomethane	100		97		70-130		3	30
Styrene	94		92		70-130		2	30
Dichlorodifluoromethane	163	Q	163	Q	30-146		0	30
Acetone	64		56		54-140		13	30
Carbon disulfide	84		83		59-130		1	30
2-Butanone	84		84		70-130		0	30
Vinyl acetate	115		108		70-130		6	30



Lab Control Sample Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-10 Batch: WG981737-3 WG981737-4								
4-Methyl-2-pentanone	91		85		70-130	7		30
1,2,3-Trichloropropane	84		84		68-130	0		30
2-Hexanone	85		87		70-130	2		30
Bromochloromethane	102		97		70-130	5		30
2,2-Dichloropropane	113		104		70-130	8		30
1,2-Dibromoethane	92		89		70-130	3		30
1,3-Dichloropropane	93		90		69-130	3		30
1,1,1,2-Tetrachloroethane	95		93		70-130	2		30
Bromobenzene	88		84		70-130	5		30
n-Butylbenzene	98		95		70-130	3		30
sec-Butylbenzene	93		90		70-130	3		30
tert-Butylbenzene	91		88		70-130	3		30
o-Chlorotoluene	89		87		70-130	2		30
p-Chlorotoluene	88		86		70-130	2		30
1,2-Dibromo-3-chloropropane	84		81		68-130	4		30
Hexachlorobutadiene	96		88		67-130	9		30
Isopropylbenzene	91		87		70-130	4		30
p-Isopropyltoluene	93		91		70-130	2		30
Naphthalene	89		84		70-130	6		30
Acrylonitrile	101		98		70-130	3		30
n-Propylbenzene	93		89		70-130	4		30



Lab Control Sample Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	RPD	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-10 Batch: WG981737-3 WG981737-4								
1,2,3-Trichlorobenzene	92		87		70-130		6	30
1,2,4-Trichlorobenzene	95		88		70-130		8	30
1,3,5-Trimethylbenzene	90		88		70-130		2	30
1,2,4-Trimethylbenzene	90		88		70-130		2	30
1,4-Dioxane	87		75		65-136		15	30
p-Diethylbenzene	96		92		70-130		4	30
p-Ethyltoluene	92		89		70-130		3	30
1,2,4,5-Tetramethylbenzene	91		87		70-130		4	30
Ethyl ether	105		112		67-130		6	30
trans-1,4-Dichloro-2-butene	106		105		70-130		1	30

Surrogate	LCS		LCSD		Acceptance
	%Recovery	Qual	%Recovery	Qual	Criteria
1,2-Dichloroethane-d4	97		94		70-130
Toluene-d8	95		93		70-130
4-Bromofluorobenzene	96		98		70-130
Dibromofluoromethane	102		103		70-130



SEMIVOLATILES

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-01
Client ID: SM-SURFACE
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/27/17 16:25
Analyst: KV
Percent Solids: 89%

Date Collected: 02/22/17 08:45
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	21	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	1100		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	110	J	ug/kg	180	64.	1
Butyl benzyl phthalate	160	J	ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-01

Date Collected: 02/22/17 08:45

Client ID: SM-SURFACE

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	640		ug/kg	110	21.	1
Benzo(a)pyrene	640		ug/kg	150	45.	1
Benzo(b)fluoranthene	890		ug/kg	110	31.	1
Benzo(k)fluoranthene	250		ug/kg	110	29.	1
Chrysene	620		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	89	J	ug/kg	110	36.	1
Benzo(ghi)perylene	400		ug/kg	150	22.	1
Fluorene	20	J	ug/kg	180	18.	1
Phenanthrene	350		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	110		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	450		ug/kg	150	26.	1
Pyrene	980		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	58	J	ug/kg	180	18.	1

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**SAMPLE RESULTS**

Lab ID: L1705771-01

Date Collected: 02/22/17 08:45

Client ID: SM-SURFACE

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	55		18-120

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-02
Client ID: SM-1 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/27/17 16:52
Analyst: KV
Percent Solids: 86%

Date Collected: 02/22/17 09:00
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	32	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	84	J	ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	800		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	56	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	2100		ug/kg	190	66.	1
Butyl benzyl phthalate	280		ug/kg	190	48.	1
Di-n-butylphthalate	140	J	ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-02

Date Collected: 02/22/17 09:00

Client ID: SM-1 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	420		ug/kg	120	22.	1
Benzo(a)pyrene	500		ug/kg	150	47.	1
Benzo(b)fluoranthene	670		ug/kg	120	32.	1
Benzo(k)fluoranthene	180		ug/kg	120	31.	1
Chrysene	440		ug/kg	120	20.	1
Acenaphthylene	53	J	ug/kg	150	30.	1
Anthracene	120		ug/kg	120	37.	1
Benzo(ghi)perylene	390		ug/kg	150	22.	1
Fluorene	58	J	ug/kg	190	19.	1
Phenanthrene	380		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	88	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	360		ug/kg	150	27.	1
Pyrene	830		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	38	J	ug/kg	190	18.	1
2-Methylnaphthalene	58	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	63	J	ug/kg	190	19.	1

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**SAMPLE RESULTS**

Lab ID: L1705771-02

Date Collected: 02/22/17 09:00

Client ID: SM-1 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		25-120
Phenol-d6	44		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	49		30-120
2,4,6-Tribromophenol	49		10-136
4-Terphenyl-d14	44		18-120

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-03
Client ID: SM-1 (13-14)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/27/17 14:12
Analyst: KV
Percent Solids: 95%

Date Collected: 02/22/17 09:15
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**SAMPLE RESULTS****Lab ID:** L1705771-03**Date Collected:** 02/22/17 09:15**Client ID:** SM-1 (13-14)**Date Received:** 02/23/17**Sample Location:** FAR ROCKAWAY, NY**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	17.	1

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**SAMPLE RESULTS**

Lab ID: L1705771-03

Date Collected: 02/22/17 09:15

Client ID: SM-1 (13-14)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	75		18-120

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-04 D
 Client ID: SM-2 (0-2)
 Sample Location: FAR ROCKAWAY, NY
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 02/28/17 21:53
 Analyst: SZ
 Percent Solids: 81%

Date Collected: 02/22/17 13:30
 Date Received: 02/23/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 02/26/17 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	59	J	ug/kg	330	42.	2
1,2,4-Trichlorobenzene	ND		ug/kg	410	47.	2
Hexachlorobenzene	ND		ug/kg	240	46.	2
Bis(2-chloroethyl)ether	ND		ug/kg	370	55.	2
2-Chloronaphthalene	ND		ug/kg	410	40.	2
1,2-Dichlorobenzene	ND		ug/kg	410	73.	2
1,3-Dichlorobenzene	ND		ug/kg	410	70.	2
1,4-Dichlorobenzene	ND		ug/kg	410	71.	2
3,3'-Dichlorobenzidine	ND		ug/kg	410	110	2
2,4-Dinitrotoluene	ND		ug/kg	410	82.	2
2,6-Dinitrotoluene	ND		ug/kg	410	70.	2
Fluoranthene	1100		ug/kg	240	47.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	410	44.	2
4-Bromophenyl phenyl ether	ND		ug/kg	410	62.	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	490	70.	2
Bis(2-chloroethoxy)methane	ND		ug/kg	440	41.	2
Hexachlorobutadiene	ND		ug/kg	410	60.	2
Hexachlorocyclopentadiene	ND		ug/kg	1200	370	2
Hexachloroethane	ND		ug/kg	330	66.	2
Isophorone	ND		ug/kg	370	53.	2
Naphthalene	87	J	ug/kg	410	50.	2
Nitrobenzene	ND		ug/kg	370	60.	2
NDPA/DPA	ND		ug/kg	330	46.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	410	63.	2
Bis(2-ethylhexyl)phthalate	3600		ug/kg	410	140	2
Butyl benzyl phthalate	9600		ug/kg	410	100	2
Di-n-butylphthalate	440		ug/kg	410	77.	2
Di-n-octylphthalate	2200		ug/kg	410	140	2
Diethyl phthalate	ND		ug/kg	410	38.	2
Dimethyl phthalate	ND		ug/kg	410	86.	2

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-04 D

Date Collected: 02/22/17 13:30

Client ID: SM-2 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	570		ug/kg	240	46.	2
Benzo(a)pyrene	660		ug/kg	330	99.	2
Benzo(b)fluoranthene	910		ug/kg	240	69.	2
Benzo(k)fluoranthene	280		ug/kg	240	65.	2
Chrysene	580		ug/kg	240	42.	2
Acenaphthylene	83	J	ug/kg	330	63.	2
Anthracene	220	J	ug/kg	240	79.	2
Benzo(ghi)perylene	510		ug/kg	330	48.	2
Fluorene	79	J	ug/kg	410	40.	2
Phenanthrene	710		ug/kg	240	50.	2
Dibenzo(a,h)anthracene	92	J	ug/kg	240	47.	2
Indeno(1,2,3-cd)pyrene	420		ug/kg	330	57.	2
Pyrene	1000		ug/kg	240	40.	2
Biphenyl	95	J	ug/kg	930	94.	2
4-Chloroaniline	ND		ug/kg	410	74.	2
2-Nitroaniline	ND		ug/kg	410	79.	2
3-Nitroaniline	ND		ug/kg	410	77.	2
4-Nitroaniline	ND		ug/kg	410	170	2
Dibenzofuran	41	J	ug/kg	410	38.	2
2-Methylnaphthalene	59	J	ug/kg	490	49.	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	410	42.	2
Acetophenone	ND		ug/kg	410	50.	2
2,4,6-Trichlorophenol	ND		ug/kg	240	77.	2
p-Chloro-m-cresol	ND		ug/kg	410	61.	2
2-Chlorophenol	ND		ug/kg	410	48.	2
2,4-Dichlorophenol	ND		ug/kg	370	66.	2
2,4-Dimethylphenol	ND		ug/kg	410	130	2
2-Nitrophenol	ND		ug/kg	880	150	2
4-Nitrophenol	ND		ug/kg	570	170	2
2,4-Dinitrophenol	ND		ug/kg	2000	190	2
4,6-Dinitro-o-cresol	ND		ug/kg	1000	200	2
Pentachlorophenol	ND		ug/kg	330	90.	2
Phenol	440		ug/kg	410	62.	2
2-Methylphenol	ND		ug/kg	410	63.	2
3-Methylphenol/4-Methylphenol	ND		ug/kg	590	64.	2
2,4,5-Trichlorophenol	ND		ug/kg	410	78.	2
Benzoic Acid	ND		ug/kg	1300	410	2
Benzyl Alcohol	ND		ug/kg	410	120	2
Carbazole	110	J	ug/kg	410	40.	2

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**SAMPLE RESULTS**

Lab ID: L1705771-04 D

Date Collected: 02/22/17 13:30

Client ID: SM-2 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	44		30-120
2,4,6-Tribromophenol	53		10-136
4-Terphenyl-d14	40		18-120

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-05
Client ID: SM-2 (5-7)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/27/17 15:59
Analyst: KV
Percent Solids: 90%

Date Collected: 02/22/17 13:40
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	53	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	370		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-05

Date Collected: 02/22/17 13:40

Client ID: SM-2 (5-7)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	27	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	39	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	27	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	22	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	28	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	48	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**SAMPLE RESULTS**

Lab ID: L1705771-05

Date Collected: 02/22/17 13:40

Client ID: SM-2 (5-7)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		25-120
Phenol-d6	47		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	48		30-120
2,4,6-Tribromophenol	46		10-136
4-Terphenyl-d14	37		18-120

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-06
Client ID: BUS-1 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/27/17 15:32
Analyst: KV
Percent Solids: 89%

Date Collected: 02/22/17 10:55
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	47	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-06

Date Collected: 02/22/17 10:55

Client ID: BUS-1 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	23	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	21	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	26	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	36	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**SAMPLE RESULTS**

Lab ID: L1705771-06

Date Collected: 02/22/17 10:55

Client ID: BUS-1 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-120
Phenol-d6	53		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	50		10-136
4-Terphenyl-d14	43		18-120

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-07
Client ID: BUS-1 (13-14)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/27/17 14:39
Analyst: KV
Percent Solids: 99%

Date Collected: 02/22/17 11:00
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.	1
2-Chloronaphthalene	ND		ug/kg	170	16.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	28.	1
1,4-Dichlorobenzene	ND		ug/kg	170	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.	1
2,4-Dinitrotoluene	ND		ug/kg	170	33.	1
2,6-Dinitrotoluene	ND		ug/kg	170	28.	1
Fluoranthene	ND		ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	24.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	24.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	57.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	31.	1
Di-n-octylphthalate	ND		ug/kg	170	56.	1
Diethyl phthalate	ND		ug/kg	170	15.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-07

Date Collected: 02/22/17 11:00

Client ID: BUS-1 (13-14)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	40.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	26.	1
Chrysene	ND		ug/kg	100	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	32.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	1
Pyrene	ND		ug/kg	100	16.	1
Biphenyl	ND		ug/kg	380	38.	1
4-Chloroaniline	ND		ug/kg	170	30.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	31.	1
4-Nitroaniline	ND		ug/kg	170	69.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.	1
Acetophenone	ND		ug/kg	170	20.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	31.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	55.	1
2-Nitrophenol	ND		ug/kg	360	62.	1
4-Nitrophenol	ND		ug/kg	230	68.	1
2,4-Dinitrophenol	ND		ug/kg	800	77.	1
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.	1
Pentachlorophenol	ND		ug/kg	130	36.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Benzoic Acid	ND		ug/kg	540	170	1
Benzyl Alcohol	ND		ug/kg	170	51.	1
Carbazole	ND		ug/kg	170	16.	1

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**SAMPLE RESULTS**

Lab ID: L1705771-07

Date Collected: 02/22/17 11:00

Client ID: BUS-1 (13-14)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	62		18-120

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-08
Client ID: BUS-2 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/27/17 17:45
Analyst: KV
Percent Solids: 91%

Date Collected: 02/22/17 11:55
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-08

Date Collected: 02/22/17 11:55

Client ID: BUS-2 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**SAMPLE RESULTS**

Lab ID: L1705771-08

Date Collected: 02/22/17 11:55

Client ID: BUS-2 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	51		18-120

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-09
Client ID: BUS-2 (10-12)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/01/17 00:05
Analyst: ALS
Percent Solids: 96%

Date Collected: 02/22/17 12:10
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/28/17 12:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	30.	1
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-09

Date Collected: 02/22/17 12:10

Client ID: BUS-2 (10-12)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	39.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	820	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	16.	1

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**SAMPLE RESULTS**

Lab ID: L1705771-09

Date Collected: 02/22/17 12:10

Client ID: BUS-2 (10-12)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	23	Q	25-120
Phenol-d6	52		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	24		10-136
4-Terphenyl-d14	63		18-120

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-10
Client ID: BUS-3
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/27/17 18:12
Analyst: KV
Percent Solids: 85%

Date Collected: 02/22/17 11:45
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	33.	1
Fluoranthene	37	J	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-10

Date Collected: 02/22/17 11:45

Client ID: BUS-3

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	23	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	38	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	34	J	ug/kg	160	27.	1
Pyrene	37	J	ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	29.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**SAMPLE RESULTS**

Lab ID: L1705771-10

Date Collected: 02/22/17 11:45

Client ID: BUS-3

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	50		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	40		18-120

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 02/27/17 12:25
 Analyst: KV

Extraction Method: EPA 3546
 Extraction Date: 02/26/17 13:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,10 Batch: WG981120-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 02/27/17 12:25
 Analyst: KV

Extraction Method: EPA 3546
 Extraction Date: 02/26/17 13:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,10 Batch: WG981120-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 02/27/17 12:25
 Analyst: KV

Extraction Method: EPA 3546
 Extraction Date: 02/26/17 13:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08,10 Batch: WG981120-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	79		18-120

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 02/28/17 22:49
 Analyst: ALS

Extraction Method: EPA 3546
 Extraction Date: 02/28/17 12:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG981618-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 02/28/17 22:49
 Analyst: ALS

Extraction Method: EPA 3546
 Extraction Date: 02/28/17 12:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG981618-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 02/28/17 22:49
 Analyst: ALS

Extraction Method: EPA 3546
 Extraction Date: 02/28/17 12:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG981618-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	79		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,10 Batch: WG981120-2 WG981120-3								
Acenaphthene	71		65		31-137	9		50
1,2,4-Trichlorobenzene	76		69		38-107	10		50
Hexachlorobenzene	76		68		40-140	11		50
Bis(2-chloroethyl)ether	64		58		40-140	10		50
2-Chloronaphthalene	80		72		40-140	11		50
1,2-Dichlorobenzene	72		65		40-140	10		50
1,3-Dichlorobenzene	72		63		40-140	13		50
1,4-Dichlorobenzene	71		62		28-104	14		50
3,3'-Dichlorobenzidine	49		48		40-140	2		50
2,4-Dinitrotoluene	86		78		40-132	10		50
2,6-Dinitrotoluene	90		81		40-140	11		50
Fluoranthene	77		72		40-140	7		50
4-Chlorophenyl phenyl ether	76		70		40-140	8		50
4-Bromophenyl phenyl ether	78		72		40-140	8		50
Bis(2-chloroisopropyl)ether	62		56		40-140	10		50
Bis(2-chloroethoxy)methane	72		66		40-117	9		50
Hexachlorobutadiene	76		71		40-140	7		50
Hexachlorocyclopentadiene	81		76		40-140	6		50
Hexachloroethane	72		63		40-140	13		50
Isophorone	77		68		40-140	12		50
Naphthalene	72		66		40-140	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	Limits
Semivolatiles Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,10 Batch: WG981120-2 WG981120-3								
Nitrobenzene	76		68		40-140		11	50
NDPA/DPA	78		70		36-157		11	50
n-Nitrosodi-n-propylamine	75		68		32-121		10	50
Bis(2-ethylhexyl)phthalate	86		78		40-140		10	50
Butyl benzyl phthalate	86		79		40-140		8	50
Di-n-butylphthalate	85		79		40-140		7	50
Di-n-octylphthalate	91		84		40-140		8	50
Diethyl phthalate	80		73		40-140		9	50
Dimethyl phthalate	88		79		40-140		11	50
Benzo(a)anthracene	75		68		40-140		10	50
Benzo(a)pyrene	87		81		40-140		7	50
Benzo(b)fluoranthene	82		76		40-140		8	50
Benzo(k)fluoranthene	82		75		40-140		9	50
Chrysene	71		66		40-140		7	50
Acenaphthylene	84		77		40-140		9	50
Anthracene	76		70		40-140		8	50
Benzo(ghi)perylene	67		63		40-140		6	50
Fluorene	76		71		40-140		7	50
Phenanthrene	72		66		40-140		9	50
Dibenzo(a,h)anthracene	72		67		40-140		7	50
Indeno(1,2,3-cd)pyrene	73		68		40-140		7	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,10 Batch: WG981120-2 WG981120-3								
Pyrene	76		70		35-142	8		50
Biphenyl	81		75		54-104	8		50
4-Chloroaniline	37	Q	32	Q	40-140	14		50
2-Nitroaniline	85		78		47-134	9		50
3-Nitroaniline	61		55		26-129	10		50
4-Nitroaniline	78		69		41-125	12		50
Dibenzofuran	74		67		40-140	10		50
2-Methylnaphthalene	77		71		40-140	8		50
1,2,4,5-Tetrachlorobenzene	78		72		40-117	8		50
Acetophenone	79		70		14-144	12		50
2,4,6-Trichlorophenol	88		82		30-130	7		50
p-Chloro-m-cresol	85		78		26-103	9		50
2-Chlorophenol	80		72		25-102	11		50
2,4-Dichlorophenol	89		81		30-130	9		50
2,4-Dimethylphenol	93		83		30-130	11		50
2-Nitrophenol	83		75		30-130	10		50
4-Nitrophenol	71		63		11-114	12		50
2,4-Dinitrophenol	46		56		4-130	20		50
4,6-Dinitro-o-cresol	77		70		10-130	10		50
Pentachlorophenol	62		60		17-109	3		50
Phenol	71		65		26-90	9		50



Lab Control Sample Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08,10 Batch: WG981120-2 WG981120-3								
2-Methylphenol	80		70		30-130.		13	50
3-Methylphenol/4-Methylphenol	81		73		30-130		10	50
2,4,5-Trichlorophenol	92		84		30-130		9	50
Benzoic Acid	0	Q	18		10-110		NC	50
Benzyl Alcohol	83		75		40-140		10	50
Carbazole	75		69		54-128		8	50

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
2-Fluorophenol	75		67		25-120	
Phenol-d6	74		68		10-120	
Nitrobenzene-d5	77		68		23-120	
2-Fluorobiphenyl	83		75		30-120	
2,4,6-Tribromophenol	77		70		10-136	
4-Terphenyl-d14	77		70		18-120	



Lab Control Sample Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Semivolatle Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG981618-2 WG981618-3								
Acenaphthene	63		80		31-137	24		50
1,2,4-Trichlorobenzene	64		80		38-107	22		50
Hexachlorobenzene	70		86		40-140	21		50
Bis(2-chloroethyl)ether	54		65		40-140	18		50
2-Chloronaphthalene	70		86		40-140	21		50
1,2-Dichlorobenzene	60		73		40-140	20		50
1,3-Dichlorobenzene	62		72		40-140	15		50
1,4-Dichlorobenzene	61		73		28-104	18		50
3,3'-Dichlorobenzidine	53		63		40-140	17		50
2,4-Dinitrotoluene	76		94		40-132	21		50
2,6-Dinitrotoluene	75		95		40-140	24		50
Fluoranthene	70		87		40-140	22		50
4-Chlorophenyl phenyl ether	70		84		40-140	18		50
4-Bromophenyl phenyl ether	70		88		40-140	23		50
Bis(2-chloroisopropyl)ether	47		59		40-140	23		50
Bis(2-chloroethoxy)methane	58		72		40-117	22		50
Hexachlorobutadiene	72		86		40-140	18		50
Hexachlorocyclopentadiene	74		88		40-140	17		50
Hexachloroethane	58		71		40-140	20		50
Isophorone	61		78		40-140	24		50
Naphthalene	64		78		40-140	20		50



Lab Control Sample Analysis

Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Semivolatiles Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG981618-2 WG981618-3								
Nitrobenzene	61		77		40-140	23		50
NDPA/DPA	68		85		36-157	22		50
n-Nitrosodi-n-propylamine	59		77		32-121	26		50
Bis(2-ethylhexyl)phthalate	70		90		40-140	25		50
Butyl benzyl phthalate	73		93		40-140	24		50
Di-n-butylphthalate	76		94		40-140	21		50
Di-n-octylphthalate	72		96		40-140	29		50
Diethyl phthalate	71		87		40-140	20		50
Dimethyl phthalate	76		93		40-140	20		50
Benzo(a)anthracene	66		83		40-140	23		50
Benzo(a)pyrene	71		96		40-140	30		50
Benzo(b)fluoranthene	65		89		40-140	31		50
Benzo(k)fluoranthene	65		91		40-140	33		50
Chrysene	62		79		40-140	24		50
Acenaphthylene	71		91		40-140	25		50
Anthracene	68		86		40-140	23		50
Benzo(ghi)perylene	68		83		40-140	20		50
Fluorene	69		86		40-140	22		50
Phenanthrene	64		80		40-140	22		50
Dibenzo(a,h)anthracene	71		88		40-140	21		50
Indeno(1,2,3-cd)pyrene	71		88		40-140	21		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG981618-2 WG981618-3								
Pyrene	70		85		35-142	19		50
Biphenyl	72		87		54-104	19		50
4-Chloroaniline	37	Q	45		40-140	20		50
2-Nitroaniline	73		93		47-134	24		50
3-Nitroaniline	54		68		26-129	23		50
4-Nitroaniline	68		87		41-125	25		50
Dibenzofuran	66		83		40-140	23		50
2-Methylnaphthalene	68		83		40-140	20		50
1,2,4,5-Tetrachlorobenzene	71		86		40-117	19		50
Acetophenone	64		81		14-144	23		50
2,4,6-Trichlorophenol	82		100		30-130	20		50
p-Chloro-m-cresol	76		94		26-103	21		50
2-Chlorophenol	67		82		25-102	20		50
2,4-Dichlorophenol	73		96		30-130	27		50
2,4-Dimethylphenol	75		96		30-130	25		50
2-Nitrophenol	69		89		30-130	25		50
4-Nitrophenol	72		88		11-114	20		50
2,4-Dinitrophenol	50		60		4-130	18		50
4,6-Dinitro-o-cresol	69		85		10-130	21		50
Pentachlorophenol	61		77		17-109	23		50
Phenol	60		73		26-90	20		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG981618-2 WG981618-3								
2-Methylphenol	64		80		30-130.		22	50
3-Methylphenol/4-Methylphenol	66		85		30-130		25	50
2,4,5-Trichlorophenol	87		104		30-130		18	50
Benzoic Acid	25		26		10-110		4	50
Benzyl Alcohol	67		86		40-140		25	50
Carbazole	68		84		54-128		21	50

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
2-Fluorophenol	62		76		25-120	
Phenol-d6	62		76		10-120	
Nitrobenzene-d5	60		75		23-120	
2-Fluorobiphenyl	72		87		30-120	
2,4,6-Tribromophenol	75		94		10-136	
4-Terphenyl-d14	71		86		18-120	



PCBS

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-01
Client ID: SM-SURFACE
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/27/17 13:12
Analyst: AF
Percent Solids: 89%

Date Collected: 02/22/17 08:45
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 02/26/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/27/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.5	2.81	1	A
Aroclor 1221	ND		ug/kg	35.5	3.28	1	A
Aroclor 1232	ND		ug/kg	35.5	4.17	1	A
Aroclor 1242	ND		ug/kg	35.5	4.35	1	A
Aroclor 1248	ND		ug/kg	35.5	3.00	1	A
Aroclor 1254	ND		ug/kg	35.5	2.92	1	A
Aroclor 1260	22.0	J	ug/kg	35.5	2.71	1	A
Aroclor 1262	ND		ug/kg	35.5	1.76	1	A
Aroclor 1268	13.1	J	ug/kg	35.5	5.15	1	A
PCBs, Total	35.1	J	ug/kg	35.5	1.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-02 D
Client ID: SM-1 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/02/17 02:20
Analyst: HT
Percent Solids: 86%

Date Collected: 02/22/17 09:00
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 02/26/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/27/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	7350	581.	200	A
Aroclor 1221	ND		ug/kg	7350	678.	200	A
Aroclor 1232	ND		ug/kg	7350	862.	200	A
Aroclor 1242	15700		ug/kg	7350	900.	200	A
Aroclor 1248	ND		ug/kg	7350	621.	200	A
Aroclor 1254	5500	J	ug/kg	7350	604.	200	A
Aroclor 1260	1540	J	ug/kg	7350	560.	200	A
Aroclor 1262	ND		ug/kg	7350	365.	200	A
Aroclor 1268	ND		ug/kg	7350	1070	200	A
PCBs, Total	22700	J	ug/kg	7350	365.	200	A

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: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-03
Client ID: SM-1 (13-14)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/27/17 13:40
Analyst: AF
Percent Solids: 95%

Date Collected: 02/22/17 09:15
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 02/26/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/27/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.0	2.61	1	A
Aroclor 1221	ND		ug/kg	33.0	3.04	1	A
Aroclor 1232	ND		ug/kg	33.0	3.87	1	A
Aroclor 1242	ND		ug/kg	33.0	4.04	1	A
Aroclor 1248	ND		ug/kg	33.0	2.79	1	A
Aroclor 1254	ND		ug/kg	33.0	2.71	1	A
Aroclor 1260	ND		ug/kg	33.0	2.52	1	A
Aroclor 1262	ND		ug/kg	33.0	1.64	1	A
Aroclor 1268	ND		ug/kg	33.0	4.79	1	A
PCBs, Total	ND		ug/kg	33.0	1.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-04 D
Client ID: SM-2 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/02/17 01:38
Analyst: HT
Percent Solids: 81%

Date Collected: 02/22/17 13:30
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 02/26/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/27/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	401	31.7	10	A
Aroclor 1221	ND		ug/kg	401	37.0	10	A
Aroclor 1232	ND		ug/kg	401	47.0	10	A
Aroclor 1242	ND		ug/kg	401	49.1	10	A
Aroclor 1248	ND		ug/kg	401	33.9	10	A
Aroclor 1254	3100		ug/kg	401	33.0	10	B
Aroclor 1260	1230		ug/kg	401	30.6	10	B
Aroclor 1262	ND		ug/kg	401	19.9	10	A
Aroclor 1268	ND		ug/kg	401	58.2	10	A
PCBs, Total	4330		ug/kg	401	30.6	10	B

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: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-05
Client ID: SM-2 (5-7)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/27/17 14:08
Analyst: AF
Percent Solids: 90%

Date Collected: 02/22/17 13:40
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 02/26/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/27/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.6	2.89	1	A
Aroclor 1221	ND		ug/kg	36.6	3.37	1	A
Aroclor 1232	ND		ug/kg	36.6	4.29	1	A
Aroclor 1242	ND		ug/kg	36.6	4.48	1	A
Aroclor 1248	ND		ug/kg	36.6	3.09	1	A
Aroclor 1254	63.2		ug/kg	36.6	3.01	1	B
Aroclor 1260	46.7	P	ug/kg	36.6	2.79	1	B
Aroclor 1262	ND		ug/kg	36.6	1.81	1	A
Aroclor 1268	ND		ug/kg	36.6	5.30	1	A
PCBs, Total	110		ug/kg	36.6	2.79	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-06
Client ID: BUS-1 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/27/17 14:21
Analyst: AF
Percent Solids: 89%

Date Collected: 02/22/17 10:55
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 02/26/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/27/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.5	2.80	1	A
Aroclor 1221	ND		ug/kg	35.5	3.27	1	A
Aroclor 1232	ND		ug/kg	35.5	4.16	1	A
Aroclor 1242	ND		ug/kg	35.5	4.34	1	A
Aroclor 1248	ND		ug/kg	35.5	3.00	1	A
Aroclor 1254	ND		ug/kg	35.5	2.92	1	A
Aroclor 1260	ND		ug/kg	35.5	2.70	1	A
Aroclor 1262	ND		ug/kg	35.5	1.76	1	A
Aroclor 1268	ND		ug/kg	35.5	5.15	1	A
PCBs, Total	ND		ug/kg	35.5	1.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-07
Client ID: BUS-1 (13-14)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/27/17 14:35
Analyst: AF
Percent Solids: 99%

Date Collected: 02/22/17 11:00
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 02/26/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/27/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.2	2.62	1	A
Aroclor 1221	ND		ug/kg	33.2	3.06	1	A
Aroclor 1232	ND		ug/kg	33.2	3.88	1	A
Aroclor 1242	ND		ug/kg	33.2	4.06	1	A
Aroclor 1248	ND		ug/kg	33.2	2.80	1	A
Aroclor 1254	ND		ug/kg	33.2	2.72	1	A
Aroclor 1260	ND		ug/kg	33.2	2.53	1	A
Aroclor 1262	ND		ug/kg	33.2	1.64	1	A
Aroclor 1268	ND		ug/kg	33.2	4.81	1	A
PCBs, Total	ND		ug/kg	33.2	1.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-08
Client ID: BUS-2 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/27/17 14:49
Analyst: AF
Percent Solids: 91%

Date Collected: 02/22/17 11:55
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 02/26/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/27/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.9	2.84	1	A
Aroclor 1221	ND		ug/kg	35.9	3.31	1	A
Aroclor 1232	ND		ug/kg	35.9	4.21	1	A
Aroclor 1242	ND		ug/kg	35.9	4.40	1	A
Aroclor 1248	ND		ug/kg	35.9	3.03	1	A
Aroclor 1254	8.69	J	ug/kg	35.9	2.95	1	A
Aroclor 1260	4.56	J	ug/kg	35.9	2.74	1	A
Aroclor 1262	ND		ug/kg	35.9	1.78	1	A
Aroclor 1268	ND		ug/kg	35.9	5.21	1	A
PCBs, Total	13.3	J	ug/kg	35.9	1.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-09
Client ID: BUS-2 (10-12)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/27/17 15:03
Analyst: AF
Percent Solids: 96%

Date Collected: 02/22/17 12:10
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 02/26/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/27/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.9	2.68	1	A
Aroclor 1221	ND		ug/kg	33.9	3.12	1	A
Aroclor 1232	ND		ug/kg	33.9	3.97	1	A
Aroclor 1242	ND		ug/kg	33.9	4.15	1	A
Aroclor 1248	ND		ug/kg	33.9	2.86	1	A
Aroclor 1254	ND		ug/kg	33.9	2.79	1	A
Aroclor 1260	ND		ug/kg	33.9	2.58	1	A
Aroclor 1262	ND		ug/kg	33.9	1.68	1	A
Aroclor 1268	ND		ug/kg	33.9	4.91	1	A
PCBs, Total	ND		ug/kg	33.9	1.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	123		30-150	A
Decachlorobiphenyl	109		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-10
Client ID: BUS-3
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/27/17 15:17
Analyst: AF
Percent Solids: 85%

Date Collected: 02/22/17 11:45
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 11:55
Cleanup Method: EPA 3665A
Cleanup Date: 02/26/17
Cleanup Method: EPA 3660B
Cleanup Date: 02/27/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	2.99	1	A
Aroclor 1221	ND		ug/kg	37.8	3.48	1	A
Aroclor 1232	ND		ug/kg	37.8	4.43	1	A
Aroclor 1242	ND		ug/kg	37.8	4.63	1	A
Aroclor 1248	ND		ug/kg	37.8	3.19	1	A
Aroclor 1254	ND		ug/kg	37.8	3.11	1	A
Aroclor 1260	7.34	J	ug/kg	37.8	2.88	1	A
Aroclor 1262	ND		ug/kg	37.8	1.88	1	A
Aroclor 1268	ND		ug/kg	37.8	5.48	1	A
PCBs, Total	7.34	J	ug/kg	37.8	1.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 02/27/17 12:31
 Analyst: AF

Extraction Method: EPA 3546
 Extraction Date: 02/26/17 11:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 02/26/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 02/27/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-10 Batch: WG981111-1						
Aroclor 1016	ND		ug/kg	32.2	2.54	A
Aroclor 1221	ND		ug/kg	32.2	2.96	A
Aroclor 1232	ND		ug/kg	32.2	3.77	A
Aroclor 1242	ND		ug/kg	32.2	3.94	A
Aroclor 1248	ND		ug/kg	32.2	2.71	A
Aroclor 1254	ND		ug/kg	32.2	2.64	A
Aroclor 1260	ND		ug/kg	32.2	2.45	A
Aroclor 1262	ND		ug/kg	32.2	1.59	A
Aroclor 1268	ND		ug/kg	32.2	4.66	A
PCBs, Total	ND		ug/kg	32.2	1.59	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	62		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG981111-2 WG981111-3								
Aroclor 1016	73		69		40-140		6	50 A
Aroclor 1260	95		90		40-140		5	50 A

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		75		30-150	A
Decachlorobiphenyl	91		84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		81		30-150	B
Decachlorobiphenyl	67		62		30-150	B



PESTICIDES

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-01
Client ID: SM-SURFACE
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/17 13:15
Analyst: RL
Percent Solids: 89%

Date Collected: 02/22/17 08:45
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 09:30
Cleanup Method: EPA 3620B
Cleanup Date: 02/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.340	1	A
Lindane	ND		ug/kg	0.725	0.324	1	A
Alpha-BHC	ND		ug/kg	0.725	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.659	1	A
Heptachlor	2.08		ug/kg	0.870	0.390	1	B
Aldrin	ND		ug/kg	1.74	0.612	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.978	1	A
Endrin	ND		ug/kg	0.725	0.297	1	A
Endrin aldehyde	19.5		ug/kg	2.17	0.761	1	B
Endrin ketone	ND		ug/kg	1.74	0.448	1	A
Dieldrin	3.33		ug/kg	1.09	0.543	1	B
4,4'-DDE	2.59	P	ug/kg	1.74	0.402	1	A
4,4'-DDD	0.960	J	ug/kg	1.74	0.620	1	A
4,4'-DDT	14.0		ug/kg	3.26	1.40	1	B
Endosulfan I	ND		ug/kg	1.74	0.411	1	A
Endosulfan II	ND	PI	ug/kg	1.74	0.581	1	A
Endosulfan sulfate	ND		ug/kg	0.725	0.345	1	A
Methoxychlor	ND		ug/kg	3.26	1.01	1	A
Toxaphene	ND		ug/kg	32.6	9.13	1	A
cis-Chlordane	18.2	P	ug/kg	2.17	0.606	1	A
trans-Chlordane	13.1		ug/kg	2.17	0.574	1	B
Chlordane	134		ug/kg	14.1	5.76	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	58		30-150	A

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-02
Client ID: SM-1 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/17 13:27
Analyst: RL
Percent Solids: 86%

Date Collected: 02/22/17 09:00
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 09:30
Cleanup Method: EPA 3620B
Cleanup Date: 02/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.730	0.326	1	A
Alpha-BHC	ND		ug/kg	0.730	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.664	1	A
Heptachlor	ND		ug/kg	0.876	0.393	1	A
Aldrin	1.06	JPI	ug/kg	1.75	0.617	1	A
Heptachlor epoxide	19.1	PI	ug/kg	3.29	0.986	1	A
Endrin	ND		ug/kg	0.730	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.767	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	ND		ug/kg	1.10	0.548	1	A
4,4'-DDE	ND		ug/kg	1.75	0.405	1	A
4,4'-DDD	21.3	PI	ug/kg	1.75	0.625	1	A
4,4'-DDT	10.9	PI	ug/kg	3.29	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.586	1	A
Endosulfan sulfate	ND		ug/kg	0.730	0.348	1	A
Methoxychlor	11.2	PI	ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.20	1	A
cis-Chlordane	22.2		ug/kg	2.19	0.610	1	B
trans-Chlordane	10.9	PI	ug/kg	2.19	0.578	1	A
Chlordane	170	PI	ug/kg	14.2	5.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	111		30-150	B
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	53		30-150	A

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-03
Client ID: SM-1 (13-14)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/17 13:40
Analyst: RL
Percent Solids: 95%

Date Collected: 02/22/17 09:15
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 09:30
Cleanup Method: EPA 3620B
Cleanup Date: 02/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.319	1	A
Lindane	ND		ug/kg	0.678	0.303	1	A
Alpha-BHC	ND		ug/kg	0.678	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.617	1	A
Heptachlor	ND		ug/kg	0.814	0.365	1	A
Aldrin	ND		ug/kg	1.63	0.573	1	A
Heptachlor epoxide	ND		ug/kg	3.05	0.916	1	A
Endrin	ND		ug/kg	0.678	0.278	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.712	1	A
Endrin ketone	ND		ug/kg	1.63	0.419	1	A
Dieldrin	ND		ug/kg	1.02	0.509	1	A
4,4'-DDE	ND		ug/kg	1.63	0.377	1	A
4,4'-DDD	ND		ug/kg	1.63	0.581	1	A
4,4'-DDT	ND		ug/kg	3.05	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.385	1	A
Endosulfan II	ND		ug/kg	1.63	0.544	1	A
Endosulfan sulfate	ND		ug/kg	0.678	0.323	1	A
Methoxychlor	ND		ug/kg	3.05	0.950	1	A
Toxaphene	ND		ug/kg	30.5	8.55	1	A
cis-Chlordane	ND		ug/kg	2.04	0.567	1	A
trans-Chlordane	ND		ug/kg	2.04	0.537	1	A
Chlordane	ND		ug/kg	13.2	5.39	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	57		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	48		30-150	A

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-04
Client ID: SM-2 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/17 13:52
Analyst: RL
Percent Solids: 81%

Date Collected: 02/22/17 13:30
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 09:30
Cleanup Method: EPA 3620B
Cleanup Date: 02/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.95	0.381	1	A
Lindane	ND		ug/kg	0.811	0.363	1	A
Alpha-BHC	ND		ug/kg	0.811	0.230	1	A
Beta-BHC	ND		ug/kg	1.95	0.738	1	A
Heptachlor	ND		ug/kg	0.974	0.436	1	A
Aldrin	ND		ug/kg	1.95	0.686	1	A
Heptachlor epoxide	ND		ug/kg	3.65	1.10	1	A
Endrin	ND		ug/kg	0.811	0.333	1	A
Endrin aldehyde	ND		ug/kg	2.43	0.852	1	A
Endrin ketone	ND		ug/kg	1.95	0.501	1	A
Dieldrin	ND		ug/kg	1.22	0.608	1	A
4,4'-DDE	ND		ug/kg	1.95	0.450	1	A
4,4'-DDD	15.0		ug/kg	1.95	0.694	1	A
4,4'-DDT	53.6	PI	ug/kg	3.65	1.56	1	A
Endosulfan I	ND		ug/kg	1.95	0.460	1	A
Endosulfan II	ND		ug/kg	1.95	0.651	1	A
Endosulfan sulfate	ND		ug/kg	0.811	0.386	1	A
Methoxychlor	66.2		ug/kg	3.65	1.14	1	A
Toxaphene	ND		ug/kg	36.5	10.2	1	A
cis-Chlordane	53.5	P	ug/kg	2.43	0.678	1	A
trans-Chlordane	16.0	PI	ug/kg	2.43	0.643	1	A
Chlordane	365	PI	ug/kg	15.8	6.45	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	69		30-150	A

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-05
Client ID: SM-2 (5-7)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/17 14:05
Analyst: RL
Percent Solids: 90%

Date Collected: 02/22/17 13:40
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 09:30
Cleanup Method: EPA 3620B
Cleanup Date: 02/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.341	1	A
Lindane	ND		ug/kg	0.726	0.324	1	A
Alpha-BHC	ND		ug/kg	0.726	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.660	1	A
Heptachlor	ND		ug/kg	0.871	0.390	1	A
Aldrin	ND		ug/kg	1.74	0.613	1	A
Heptachlor epoxide	ND		ug/kg	3.27	0.980	1	A
Endrin	ND		ug/kg	0.726	0.298	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.762	1	A
Endrin ketone	ND		ug/kg	1.74	0.448	1	A
Dieldrin	ND		ug/kg	1.09	0.544	1	A
4,4'-DDE	ND		ug/kg	1.74	0.403	1	A
4,4'-DDD	2.12	P	ug/kg	1.74	0.621	1	A
4,4'-DDT	3.49	PI	ug/kg	3.27	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.412	1	A
Endosulfan II	0.630	JPI	ug/kg	1.74	0.582	1	A
Endosulfan sulfate	ND		ug/kg	0.726	0.346	1	A
Methoxychlor	2.43	J	ug/kg	3.27	1.02	1	A
Toxaphene	ND		ug/kg	32.7	9.14	1	A
cis-Chlordane	2.44	P	ug/kg	2.18	0.607	1	A
trans-Chlordane	1.14	JPI	ug/kg	2.18	0.575	1	A
Chlordane	36.9	PI	ug/kg	14.2	5.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	44		30-150	A

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-06
Client ID: BUS-1 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/17 14:18
Analyst: RL
Percent Solids: 89%

Date Collected: 02/22/17 10:55
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 09:30
Cleanup Method: EPA 3620B
Cleanup Date: 02/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.342	1	A
Lindane	ND		ug/kg	0.728	0.325	1	A
Alpha-BHC	ND		ug/kg	0.728	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.662	1	A
Heptachlor	ND		ug/kg	0.873	0.392	1	A
Aldrin	ND		ug/kg	1.75	0.615	1	A
Heptachlor epoxide	ND		ug/kg	3.27	0.982	1	A
Endrin	ND		ug/kg	0.728	0.298	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.764	1	A
Endrin ketone	ND		ug/kg	1.75	0.450	1	A
Dieldrin	ND		ug/kg	1.09	0.546	1	A
4,4'-DDE	ND		ug/kg	1.75	0.404	1	A
4,4'-DDD	ND		ug/kg	1.75	0.623	1	A
4,4'-DDT	ND		ug/kg	3.27	1.40	1	A
Endosulfan I	ND		ug/kg	1.75	0.413	1	A
Endosulfan II	ND		ug/kg	1.75	0.584	1	A
Endosulfan sulfate	ND		ug/kg	0.728	0.346	1	A
Methoxychlor	ND		ug/kg	3.27	1.02	1	A
Toxaphene	ND		ug/kg	32.7	9.17	1	A
cis-Chlordane	ND		ug/kg	2.18	0.608	1	A
trans-Chlordane	ND		ug/kg	2.18	0.576	1	A
Chlordane	ND		ug/kg	14.2	5.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	54		30-150	A

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-07
Client ID: BUS-1 (13-14)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/17 14:30
Analyst: RL
Percent Solids: 99%

Date Collected: 02/22/17 11:00
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 09:30
Cleanup Method: EPA 3620B
Cleanup Date: 02/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.58	0.309	1	A
Lindane	ND		ug/kg	0.658	0.294	1	A
Alpha-BHC	ND		ug/kg	0.658	0.187	1	A
Beta-BHC	ND		ug/kg	1.58	0.599	1	A
Heptachlor	ND		ug/kg	0.790	0.354	1	A
Aldrin	ND		ug/kg	1.58	0.556	1	A
Heptachlor epoxide	ND		ug/kg	2.96	0.888	1	A
Endrin	ND		ug/kg	0.658	0.270	1	A
Endrin aldehyde	ND		ug/kg	1.97	0.691	1	A
Endrin ketone	ND		ug/kg	1.58	0.407	1	A
Dieldrin	ND		ug/kg	0.987	0.493	1	A
4,4'-DDE	ND		ug/kg	1.58	0.365	1	A
4,4'-DDD	ND		ug/kg	1.58	0.563	1	A
4,4'-DDT	ND		ug/kg	2.96	1.27	1	A
Endosulfan I	ND		ug/kg	1.58	0.373	1	A
Endosulfan II	ND		ug/kg	1.58	0.528	1	A
Endosulfan sulfate	ND		ug/kg	0.658	0.313	1	A
Methoxychlor	ND		ug/kg	2.96	0.921	1	A
Toxaphene	ND		ug/kg	29.6	8.29	1	A
cis-Chlordane	ND		ug/kg	1.97	0.550	1	A
trans-Chlordane	ND		ug/kg	1.97	0.521	1	A
Chlordane	ND		ug/kg	12.8	5.23	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	73		30-150	B
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	58		30-150	A

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-08
Client ID: BUS-2 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/17 14:43
Analyst: RL
Percent Solids: 91%

Date Collected: 02/22/17 11:55
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 09:30
Cleanup Method: EPA 3620B
Cleanup Date: 02/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.338	1	A
Lindane	ND		ug/kg	0.720	0.322	1	A
Alpha-BHC	ND		ug/kg	0.720	0.204	1	A
Beta-BHC	ND		ug/kg	1.73	0.655	1	A
Heptachlor	ND		ug/kg	0.864	0.387	1	A
Aldrin	ND		ug/kg	1.73	0.608	1	A
Heptachlor epoxide	ND		ug/kg	3.24	0.972	1	A
Endrin	ND		ug/kg	0.720	0.295	1	A
Endrin aldehyde	ND		ug/kg	2.16	0.756	1	A
Endrin ketone	ND		ug/kg	1.73	0.445	1	A
Dieldrin	ND		ug/kg	1.08	0.540	1	A
4,4'-DDE	ND		ug/kg	1.73	0.400	1	A
4,4'-DDD	ND		ug/kg	1.73	0.616	1	A
4,4'-DDT	ND		ug/kg	3.24	1.39	1	B
Endosulfan I	ND		ug/kg	1.73	0.408	1	A
Endosulfan II	ND		ug/kg	1.73	0.577	1	A
Endosulfan sulfate	ND		ug/kg	0.720	0.343	1	A
Methoxychlor	ND		ug/kg	3.24	1.01	1	A
Toxaphene	ND		ug/kg	32.4	9.07	1	A
cis-Chlordane	ND		ug/kg	2.16	0.602	1	A
trans-Chlordane	ND		ug/kg	2.16	0.570	1	A
Chlordane	ND		ug/kg	14.0	5.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	58		30-150	A

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-09
Client ID: BUS-2 (10-12)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/17 14:55
Analyst: RL
Percent Solids: 96%

Date Collected: 02/22/17 12:10
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 09:30
Cleanup Method: EPA 3620B
Cleanup Date: 02/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.59	0.311	1	A
Lindane	ND		ug/kg	0.661	0.296	1	A
Alpha-BHC	ND		ug/kg	0.661	0.188	1	A
Beta-BHC	ND		ug/kg	1.59	0.602	1	A
Heptachlor	ND		ug/kg	0.793	0.356	1	A
Aldrin	ND		ug/kg	1.59	0.559	1	A
Heptachlor epoxide	ND		ug/kg	2.98	0.893	1	A
Endrin	ND		ug/kg	0.661	0.271	1	A
Endrin aldehyde	ND		ug/kg	1.98	0.694	1	A
Endrin ketone	ND		ug/kg	1.59	0.409	1	A
Dieldrin	ND		ug/kg	0.992	0.496	1	A
4,4'-DDE	ND		ug/kg	1.59	0.367	1	A
4,4'-DDD	ND		ug/kg	1.59	0.566	1	A
4,4'-DDT	ND		ug/kg	2.98	1.28	1	A
Endosulfan I	ND		ug/kg	1.59	0.375	1	A
Endosulfan II	ND		ug/kg	1.59	0.530	1	A
Endosulfan sulfate	ND		ug/kg	0.661	0.315	1	A
Methoxychlor	ND		ug/kg	2.98	0.926	1	A
Toxaphene	ND		ug/kg	29.8	8.33	1	A
cis-Chlordane	ND		ug/kg	1.98	0.553	1	A
trans-Chlordane	ND		ug/kg	1.98	0.524	1	A
Chlordane	ND		ug/kg	12.9	5.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	64		30-150	A

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-10
Client ID: BUS-3
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/27/17 15:08
Analyst: RL
Percent Solids: 85%

Date Collected: 02/22/17 11:45
Date Received: 02/23/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/26/17 09:30
Cleanup Method: EPA 3620B
Cleanup Date: 02/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.361	1	A
Lindane	ND		ug/kg	0.769	0.344	1	A
Alpha-BHC	ND		ug/kg	0.769	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.700	1	A
Heptachlor	ND		ug/kg	0.923	0.414	1	A
Aldrin	ND		ug/kg	1.84	0.650	1	A
Heptachlor epoxide	ND		ug/kg	3.46	1.04	1	A
Endrin	ND		ug/kg	0.769	0.315	1	A
Endrin aldehyde	ND		ug/kg	2.31	0.807	1	A
Endrin ketone	ND		ug/kg	1.84	0.475	1	A
Dieldrin	ND		ug/kg	1.15	0.577	1	A
4,4'-DDE	ND		ug/kg	1.84	0.427	1	A
4,4'-DDD	ND		ug/kg	1.84	0.658	1	A
4,4'-DDT	ND		ug/kg	3.46	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.436	1	A
Endosulfan II	ND		ug/kg	1.84	0.617	1	A
Endosulfan sulfate	ND		ug/kg	0.769	0.366	1	A
Methoxychlor	ND		ug/kg	3.46	1.08	1	A
Toxaphene	ND		ug/kg	34.6	9.69	1	A
cis-Chlordane	ND		ug/kg	2.31	0.643	1	A
trans-Chlordane	ND		ug/kg	2.31	0.609	1	A
Chlordane	ND		ug/kg	15.0	6.11	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	73		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	60		30-150	A

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 02/27/17 12:37
 Analyst: RL

Extraction Method: EPA 3546
 Extraction Date: 02/26/17 09:30
 Cleanup Method: EPA 3620B
 Cleanup Date: 02/26/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-10 Batch: WG981091-1						
Delta-BHC	ND		ug/kg	1.54	0.303	A
Lindane	ND		ug/kg	0.644	0.288	A
Alpha-BHC	ND		ug/kg	0.644	0.183	A
Beta-BHC	ND		ug/kg	1.54	0.586	A
Heptachlor	ND		ug/kg	0.773	0.346	A
Aldrin	ND		ug/kg	1.54	0.544	A
Heptachlor epoxide	ND		ug/kg	2.90	0.869	A
Endrin	ND		ug/kg	0.644	0.264	A
Endrin aldehyde	ND		ug/kg	1.93	0.676	A
Endrin ketone	ND		ug/kg	1.54	0.398	A
Dieldrin	ND		ug/kg	0.966	0.483	A
4,4'-DDE	ND		ug/kg	1.54	0.357	A
4,4'-DDD	ND		ug/kg	1.54	0.551	A
4,4'-DDT	ND		ug/kg	2.90	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.365	A
Endosulfan II	ND		ug/kg	1.54	0.516	A
Endosulfan sulfate	ND		ug/kg	0.644	0.306	A
Methoxychlor	ND		ug/kg	2.90	0.901	A
Toxaphene	ND		ug/kg	29.0	8.11	A
cis-Chlordane	ND		ug/kg	1.93	0.538	A
trans-Chlordane	ND		ug/kg	1.93	0.510	A
Chlordane	ND		ug/kg	12.6	5.12	A

Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 02/27/17 12:37
 Analyst: RL

Extraction Method: EPA 3546
 Extraction Date: 02/26/17 09:30
 Cleanup Method: EPA 3620B
 Cleanup Date: 02/26/17

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-10 Batch: WG981091-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	55		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG981091-2 WG981091-3								
Delta-BHC	92		86		30-150	7	30	A
Lindane	95		86		30-150	10	30	A
Alpha-BHC	108		101		30-150	7	30	A
Beta-BHC	107		110		30-150	3	30	A
Heptachlor	99		93		30-150	6	30	A
Aldrin	110		102		30-150	8	30	A
Heptachlor epoxide	99		91		30-150	8	30	A
Endrin	105		96		30-150	9	30	A
Endrin aldehyde	75		66		30-150	13	30	A
Endrin ketone	96		94		30-150	2	30	A
Dieldrin	107		101		30-150	6	30	A
4,4'-DDE	103		96		30-150	7	30	A
4,4'-DDD	98		92		30-150	6	30	A
4,4'-DDT	97		92		30-150	5	30	A
Endosulfan I	99		93		30-150	6	30	A
Endosulfan II	101		94		30-150	7	30	A
Endosulfan sulfate	95		87		30-150	9	30	A
Methoxychlor	102		96		30-150	6	30	A
cis-Chlordane	94		89		30-150	5	30	A
trans-Chlordane	91		84		30-150	8	30	A



Lab Control Sample Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		Qual		RPD		RPD		Limits	
	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG981091-2 WG981091-3														
Surrogate	LCS		LCSD		Acceptance		Criteria		Column					
2,4,5,6-Tetrachloro-m-xylene Decachlorobiphenyl	80	72	75	70	30-150	B	30-150	B	30-150	A	30-150	A	30-150	A
2,4,5,6-Tetrachloro-m-xylene Decachlorobiphenyl	84	53	79	52	30-150	A	30-150	A	30-150	A	30-150	A	30-150	A



METALS

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-01

Date Collected: 02/22/17 08:45

Client ID: SM-SURFACE

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4600		mg/kg	8.8	2.4	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Antimony, Total	ND		mg/kg	4.4	0.33	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Arsenic, Total	3.5		mg/kg	0.88	0.18	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Barium, Total	81		mg/kg	0.88	0.15	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Beryllium, Total	0.19	J	mg/kg	0.44	0.03	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Cadmium, Total	0.42	J	mg/kg	0.88	0.09	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Calcium, Total	16000		mg/kg	8.8	3.1	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Chromium, Total	16		mg/kg	0.88	0.08	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Cobalt, Total	3.9		mg/kg	1.8	0.14	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Copper, Total	28		mg/kg	0.88	0.23	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Iron, Total	9200		mg/kg	4.4	0.79	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Lead, Total	200		mg/kg	4.4	0.24	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Magnesium, Total	2500		mg/kg	8.8	1.4	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Manganese, Total	150		mg/kg	0.88	0.14	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Mercury, Total	0.11		mg/kg	0.07	0.02	1	02/28/17 08:00	03/01/17 13:31	EPA 7471B	1,7471B	BV
Nickel, Total	13		mg/kg	2.2	0.21	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Potassium, Total	470		mg/kg	220	13.	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.8	0.23	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.88	0.25	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Sodium, Total	130	J	mg/kg	180	2.8	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.8	0.28	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Vanadium, Total	18		mg/kg	0.88	0.18	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC
Zinc, Total	120		mg/kg	4.4	0.26	2	02/24/17 19:56	02/27/17 19:52	EPA 3050B	1,6010C	MC



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-02

Date Collected: 02/22/17 09:00

Client ID: SM-1 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4800		mg/kg	9.0	2.4	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Antimony, Total	ND		mg/kg	4.5	0.34	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Arsenic, Total	6.9		mg/kg	0.90	0.19	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Barium, Total	320		mg/kg	0.90	0.16	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Beryllium, Total	0.16	J	mg/kg	0.45	0.03	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Cadmium, Total	12		mg/kg	0.90	0.09	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Calcium, Total	1600		mg/kg	9.0	3.2	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Chromium, Total	24		mg/kg	0.90	0.09	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Cobalt, Total	4.6		mg/kg	1.8	0.15	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Copper, Total	260		mg/kg	0.90	0.23	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Iron, Total	43000		mg/kg	4.5	0.82	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Lead, Total	1400		mg/kg	4.5	0.24	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Magnesium, Total	810		mg/kg	9.0	1.4	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Manganese, Total	210		mg/kg	0.90	0.14	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Mercury, Total	3.7		mg/kg	0.37	0.08	5	02/28/17 08:00	03/01/17 14:55	EPA 7471B	1,7471B	BV
Nickel, Total	38		mg/kg	2.3	0.22	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Potassium, Total	140	J	mg/kg	230	13.	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.8	0.23	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Silver, Total	0.89	J	mg/kg	0.90	0.26	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Sodium, Total	52	J	mg/kg	180	2.8	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.8	0.28	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Vanadium, Total	15		mg/kg	0.90	0.18	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC
Zinc, Total	1200		mg/kg	4.5	0.26	2	02/24/17 19:56	02/27/17 20:08	EPA 3050B	1,6010C	MC



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-03

Date Collected: 02/22/17 09:15

Client ID: SM-1 (13-14)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	370		mg/kg	8.3	2.2	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Antimony, Total	ND		mg/kg	4.2	0.32	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Arsenic, Total	1.3		mg/kg	0.83	0.17	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Barium, Total	1.4		mg/kg	0.83	0.14	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Beryllium, Total	0.04	J	mg/kg	0.42	0.03	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.83	0.08	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Calcium, Total	25		mg/kg	8.3	2.9	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Chromium, Total	1.8		mg/kg	0.83	0.08	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Cobalt, Total	0.44	J	mg/kg	1.7	0.14	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Copper, Total	1.1		mg/kg	0.83	0.21	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Iron, Total	1600		mg/kg	4.2	0.75	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Lead, Total	0.90	J	mg/kg	4.2	0.22	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Magnesium, Total	30		mg/kg	8.3	1.3	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Manganese, Total	9.2		mg/kg	0.83	0.13	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Mercury, Total	ND		mg/kg	0.07	0.01	1	02/28/17 08:00	03/01/17 14:06	EPA 7471B	1,7471B	BV
Nickel, Total	0.61	J	mg/kg	2.1	0.20	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Potassium, Total	30	J	mg/kg	210	12.	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.7	0.21	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.83	0.24	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Sodium, Total	3.7	J	mg/kg	170	2.6	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.7	0.26	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Vanadium, Total	2.3		mg/kg	0.83	0.17	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC
Zinc, Total	3.1	J	mg/kg	4.2	0.24	2	02/24/17 19:56	02/27/17 20:28	EPA 3050B	1,6010C	MC



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-04

Date Collected: 02/22/17 13:30

Client ID: SM-2 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9500		mg/kg	9.6	2.6	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Antimony, Total	27		mg/kg	4.8	0.36	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Arsenic, Total	51		mg/kg	0.96	0.20	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Barium, Total	1100		mg/kg	0.96	0.17	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Beryllium, Total	0.28	J	mg/kg	0.48	0.03	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Cadmium, Total	66		mg/kg	0.96	0.09	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Calcium, Total	12000		mg/kg	9.6	3.3	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Chromium, Total	96		mg/kg	0.96	0.09	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Cobalt, Total	21		mg/kg	1.9	0.16	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Copper, Total	4500		mg/kg	0.96	0.25	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Iron, Total	140000		mg/kg	48	8.6	20	02/24/17 19:56	02/28/17 01:18	EPA 3050B	1,6010C	MC
Lead, Total	7200		mg/kg	4.8	0.26	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Magnesium, Total	3400		mg/kg	9.6	1.5	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Manganese, Total	750		mg/kg	0.96	0.15	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Mercury, Total	3.8		mg/kg	0.40	0.09	5	02/28/17 08:00	03/01/17 14:57	EPA 7471B	1,7471B	BV
Nickel, Total	370		mg/kg	2.4	0.23	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Potassium, Total	700		mg/kg	240	14.	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.9	0.25	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Silver, Total	3.0		mg/kg	0.96	0.27	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Sodium, Total	310		mg/kg	190	3.0	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.9	0.30	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Vanadium, Total	47		mg/kg	0.96	0.19	2	02/24/17 19:56	02/27/17 20:32	EPA 3050B	1,6010C	MC
Zinc, Total	6600		mg/kg	48	2.8	20	02/24/17 19:56	02/28/17 01:18	EPA 3050B	1,6010C	MC



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-05

Date Collected: 02/22/17 13:40

Client ID: SM-2 (5-7)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7100		mg/kg	8.8	2.4	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Antimony, Total	ND		mg/kg	4.4	0.34	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Arsenic, Total	4.6		mg/kg	0.88	0.18	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Barium, Total	77		mg/kg	0.88	0.15	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Beryllium, Total	0.22	J	mg/kg	0.44	0.03	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Cadmium, Total	2.1		mg/kg	0.88	0.09	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Calcium, Total	1800		mg/kg	8.8	3.1	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Chromium, Total	25		mg/kg	0.88	0.09	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Cobalt, Total	4.0		mg/kg	1.8	0.15	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Copper, Total	76		mg/kg	0.88	0.23	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Iron, Total	18000		mg/kg	4.4	0.80	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Lead, Total	220		mg/kg	4.4	0.24	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Magnesium, Total	960		mg/kg	8.8	1.4	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Manganese, Total	120		mg/kg	0.88	0.14	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Mercury, Total	0.32		mg/kg	0.07	0.02	1	02/28/17 08:00	03/01/17 14:10	EPA 7471B	1,7471B	BV
Nickel, Total	17		mg/kg	2.2	0.21	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Potassium, Total	260		mg/kg	220	13.	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.8	0.23	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.88	0.25	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Sodium, Total	48	J	mg/kg	180	2.8	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.8	0.28	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Vanadium, Total	15		mg/kg	0.88	0.18	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC
Zinc, Total	390		mg/kg	4.4	0.26	2	02/24/17 19:56	02/27/17 20:36	EPA 3050B	1,6010C	MC



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-06

Date Collected: 02/22/17 10:55

Client ID: BUS-1 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6400		mg/kg	8.6	2.3	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Antimony, Total	ND		mg/kg	4.3	0.33	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Arsenic, Total	1.6		mg/kg	0.86	0.18	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Barium, Total	10		mg/kg	0.86	0.15	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Beryllium, Total	0.19	J	mg/kg	0.43	0.03	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.86	0.08	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Calcium, Total	170		mg/kg	8.6	3.0	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Chromium, Total	9.3		mg/kg	0.86	0.08	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Cobalt, Total	1.6	J	mg/kg	1.7	0.14	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Copper, Total	3.4		mg/kg	0.86	0.22	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Iron, Total	8600		mg/kg	4.3	0.78	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Lead, Total	6.0		mg/kg	4.3	0.23	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Magnesium, Total	520		mg/kg	8.6	1.3	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Manganese, Total	40		mg/kg	0.86	0.14	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Mercury, Total	0.02	J	mg/kg	0.07	0.02	1	02/28/17 08:00	03/01/17 14:11	EPA 7471B	1,7471B	BV
Nickel, Total	4.8		mg/kg	2.2	0.21	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Potassium, Total	120	J	mg/kg	220	12.	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.7	0.22	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.86	0.24	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Sodium, Total	16	J	mg/kg	170	2.7	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.7	0.27	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Vanadium, Total	12		mg/kg	0.86	0.17	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC
Zinc, Total	15		mg/kg	4.3	0.25	2	02/24/17 19:56	02/27/17 20:40	EPA 3050B	1,6010C	MC



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-07

Date Collected: 02/22/17 11:00

Client ID: BUS-1 (13-14)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	310		mg/kg	8.0	2.2	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Antimony, Total	ND		mg/kg	4.0	0.30	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Arsenic, Total	0.87		mg/kg	0.80	0.17	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Barium, Total	0.98		mg/kg	0.80	0.14	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Beryllium, Total	0.03	J	mg/kg	0.40	0.03	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.80	0.08	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Calcium, Total	12		mg/kg	8.0	2.8	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Chromium, Total	2.5		mg/kg	0.80	0.08	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Cobalt, Total	0.38	J	mg/kg	1.6	0.13	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Copper, Total	0.91		mg/kg	0.80	0.21	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Iron, Total	2200		mg/kg	4.0	0.72	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Lead, Total	0.41	J	mg/kg	4.0	0.22	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Magnesium, Total	23		mg/kg	8.0	1.2	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Manganese, Total	17		mg/kg	0.80	0.13	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Mercury, Total	ND		mg/kg	0.06	0.01	1	02/28/17 08:00	03/01/17 14:13	EPA 7471B	1,7471B	BV
Nickel, Total	0.54	J	mg/kg	2.0	0.19	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Potassium, Total	22	J	mg/kg	200	12.	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.6	0.21	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.80	0.23	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Sodium, Total	ND		mg/kg	160	2.5	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.6	0.25	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Vanadium, Total	1.9		mg/kg	0.80	0.16	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC
Zinc, Total	2.0	J	mg/kg	4.0	0.24	2	02/24/17 19:56	02/27/17 20:44	EPA 3050B	1,6010C	MC



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-08

Date Collected: 02/22/17 11:55

Client ID: BUS-2 (0-2)

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2100		mg/kg	8.6	2.3	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Antimony, Total	ND		mg/kg	4.3	0.33	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Arsenic, Total	1.1		mg/kg	0.86	0.18	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Barium, Total	12		mg/kg	0.86	0.15	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Beryllium, Total	0.07	J	mg/kg	0.43	0.03	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Cadmium, Total	0.49	J	mg/kg	0.86	0.09	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Calcium, Total	220		mg/kg	8.6	3.0	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Chromium, Total	4.3		mg/kg	0.86	0.08	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Cobalt, Total	1.1	J	mg/kg	1.7	0.14	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Copper, Total	26		mg/kg	0.86	0.22	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Iron, Total	2900		mg/kg	4.3	0.78	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Lead, Total	5.3		mg/kg	4.3	0.23	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Magnesium, Total	230		mg/kg	8.6	1.3	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Manganese, Total	16		mg/kg	0.86	0.14	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Mercury, Total	0.03	J	mg/kg	0.07	0.02	1	02/28/17 08:00	03/01/17 14:15	EPA 7471B	1,7471B	BV
Nickel, Total	4.7		mg/kg	2.2	0.21	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Potassium, Total	130	J	mg/kg	220	12.	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.7	0.22	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.86	0.24	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Sodium, Total	7.6	J	mg/kg	170	2.7	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.7	0.27	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Vanadium, Total	4.4		mg/kg	0.86	0.18	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC
Zinc, Total	86		mg/kg	4.3	0.25	2	02/24/17 19:56	02/27/17 20:48	EPA 3050B	1,6010C	MC



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-09
 Client ID: BUS-2 (10-12)
 Sample Location: FAR ROCKAWAY, NY
 Matrix: Soil
 Percent Solids: 96%

Date Collected: 02/22/17 12:10
 Date Received: 02/23/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1400		mg/kg	8.1	2.2	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Antimony, Total	ND		mg/kg	4.1	0.31	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Arsenic, Total	3.2		mg/kg	0.81	0.17	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Barium, Total	7.4		mg/kg	0.81	0.14	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Beryllium, Total	0.11	J	mg/kg	0.41	0.03	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Cadmium, Total	0.12	J	mg/kg	0.81	0.08	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Calcium, Total	1500		mg/kg	8.1	2.8	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Chromium, Total	25		mg/kg	0.81	0.08	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Cobalt, Total	1.2	J	mg/kg	1.6	0.13	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Copper, Total	7.7		mg/kg	0.81	0.21	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Iron, Total	6500		mg/kg	4.1	0.73	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Lead, Total	4.7		mg/kg	4.1	0.22	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Magnesium, Total	370		mg/kg	8.1	1.2	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Manganese, Total	53		mg/kg	0.81	0.13	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Mercury, Total	ND		mg/kg	0.07	0.02	1	02/28/17 08:00	03/01/17 14:20	EPA 7471B	1,7471B	BV
Nickel, Total	5.4		mg/kg	2.0	0.20	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Potassium, Total	120	J	mg/kg	200	12.	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.6	0.21	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.81	0.23	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Sodium, Total	14	J	mg/kg	160	2.6	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.6	0.26	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Vanadium, Total	6.2		mg/kg	0.81	0.16	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC
Zinc, Total	11		mg/kg	4.1	0.24	2	02/24/17 19:56	02/27/17 20:52	EPA 3050B	1,6010C	MC



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-10

Date Collected: 02/22/17 11:45

Client ID: BUS-3

Date Received: 02/23/17

Sample Location: FAR ROCKAWAY, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6000		mg/kg	8.9	2.4	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Antimony, Total	ND		mg/kg	4.4	0.34	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Arsenic, Total	2.0		mg/kg	0.89	0.18	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Barium, Total	32		mg/kg	0.89	0.16	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Beryllium, Total	0.19	J	mg/kg	0.44	0.03	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Cadmium, Total	0.62	J	mg/kg	0.89	0.09	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Calcium, Total	1500		mg/kg	8.9	3.1	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Chromium, Total	12		mg/kg	0.89	0.09	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Cobalt, Total	2.8		mg/kg	1.8	0.15	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Copper, Total	74		mg/kg	0.89	0.23	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Iron, Total	13000		mg/kg	4.4	0.80	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Lead, Total	130		mg/kg	4.4	0.24	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Magnesium, Total	800		mg/kg	8.9	1.4	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Manganese, Total	72		mg/kg	0.89	0.14	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Mercury, Total	0.09		mg/kg	0.08	0.02	1	02/28/17 08:00	03/01/17 14:22	EPA 7471B	1,7471B	BV
Nickel, Total	7.6		mg/kg	2.2	0.22	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Potassium, Total	190	J	mg/kg	220	13.	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Selenium, Total	ND		mg/kg	1.8	0.23	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Silver, Total	1.1		mg/kg	0.89	0.25	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Sodium, Total	47	J	mg/kg	180	2.8	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.8	0.28	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Vanadium, Total	11		mg/kg	0.89	0.18	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC
Zinc, Total	140		mg/kg	4.4	0.26	2	02/24/17 19:56	02/27/17 20:56	EPA 3050B	1,6010C	MC



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG980872-1										
Aluminum, Total	ND		mg/kg	4.0	1.1	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Antimony, Total	ND		mg/kg	2.0	0.15	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Arsenic, Total	ND		mg/kg	0.40	0.08	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Barium, Total	ND		mg/kg	0.40	0.07	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Beryllium, Total	ND		mg/kg	0.20	0.01	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.40	0.04	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Calcium, Total	ND		mg/kg	4.0	1.4	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Chromium, Total	ND		mg/kg	0.40	0.04	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Cobalt, Total	ND		mg/kg	0.80	0.07	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Copper, Total	ND		mg/kg	0.40	0.10	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Iron, Total	1.3	J	mg/kg	2.0	0.36	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Lead, Total	ND		mg/kg	2.0	0.11	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Magnesium, Total	ND		mg/kg	4.0	0.62	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Manganese, Total	0.08	J	mg/kg	0.40	0.06	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Nickel, Total	ND		mg/kg	1.0	0.10	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Potassium, Total	ND		mg/kg	100	5.8	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Selenium, Total	ND		mg/kg	0.80	0.10	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Silver, Total	ND		mg/kg	0.40	0.11	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Sodium, Total	ND		mg/kg	80	1.3	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Thallium, Total	ND		mg/kg	0.80	0.13	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Vanadium, Total	ND		mg/kg	0.40	0.08	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC
Zinc, Total	ND		mg/kg	2.0	0.12	1	02/24/17 19:56	02/27/17 19:39	1,6010C	MC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG980971-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/28/17 08:00	03/01/17 13:28	1,7471B	BV



Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY

Lab Number: L1705771

Project Number: Not Specified

Report Date: 03/02/17

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG980872-2 SRM Lot Number: D091-540									
Aluminum, Total	75		-		52-148		-		
Antimony, Total	138		-		1-200		-		
Arsenic, Total	103		-		80-121		-		
Barium, Total	105		-		84-117		-		
Beryllium, Total	103		-		83-117		-		
Cadmium, Total	104		-		83-117		-		
Calcium, Total	91		-		81-118		-		
Chromium, Total	105		-		80-119		-		
Cobalt, Total	104		-		84-115		-		
Copper, Total	104		-		82-117		-		
Iron, Total	100		-		47-154		-		
Lead, Total	103		-		82-118		-		
Magnesium, Total	91		-		77-123		-		
Manganese, Total	100		-		82-118		-		
Nickel, Total	101		-		83-117		-		
Potassium, Total	88		-		72-128		-		
Selenium, Total	101		-		79-121		-		
Silver, Total	102		-		75-124		-		
Sodium, Total	91		-		73-126		-		
Thallium, Total	99		-		80-121		-		
Vanadium, Total	104		-		78-122		-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	LCS %Recovery	LCS %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG980872-2 SRM Lot Number: D091-540					
Zinc, Total	98	-	82-118	-	
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG980971-2 SRM Lot Number: D091-540					
Mercury, Total	98	-	72-128	-	



Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Matrix Spike Analysis
Batch Quality Control

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
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Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG980872-3 QC Sample: L1705771-01 Client ID: SM-SURFACE

Aluminum, Total	4600	173	11000	3690	Q	-	-	-	75-125	-	20
Antimony, Total	ND	43.3	34	78		-	-	-	75-125	-	20
Arsenic, Total	3.5	10.4	13	91		-	-	-	75-125	-	20
Barium, Total	81.	173	250	98		-	-	-	75-125	-	20
Beryllium, Total	0.19J	4.33	4.3	99		-	-	-	75-125	-	20
Cadmium, Total	0.42J	4.42	4.5	102		-	-	-	75-125	-	20
Calcium, Total	16000	866	20000	462	Q	-	-	-	75-125	-	20
Chromium, Total	16.	17.3	30	81		-	-	-	75-125	-	20
Cobalt, Total	3.9	43.3	42	88		-	-	-	75-125	-	20
Copper, Total	28.	21.6	58	138	Q	-	-	-	75-125	-	20
Iron, Total	9200	86.6	9400	231	Q	-	-	-	75-125	-	20
Lead, Total	200	44.2	220	45	Q	-	-	-	75-125	-	20
Magnesium, Total	2500	866	3300	92		-	-	-	75-125	-	20
Manganese, Total	150	43.3	200	115		-	-	-	75-125	-	20
Nickel, Total	13.	43.3	49	83		-	-	-	75-125	-	20
Potassium, Total	470	866	1400	107		-	-	-	75-125	-	20
Selenium, Total	ND	10.4	10	96		-	-	-	75-125	-	20
Silver, Total	ND	26	28	108		-	-	-	75-125	-	20
Sodium, Total	130J	866	1100	127	Q	-	-	-	75-125	-	20
Thallium, Total	ND	10.4	9.0	86		-	-	-	75-125	-	20
Vanadium, Total	18.	43.3	57	90		-	-	-	75-125	-	20



Matrix Spike Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG980872-3 QC Sample: L1705771-01 Client ID: SM-SURFACE								
Zinc, Total	120	43.3	150	69	Q	-	75-125	20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG980971-3 QC Sample: L1705771-01 Client ID: SM-SURFACE								
Mercury, Total	0.11	0.142	0.28	120	-	-	80-120	20



Lab Duplicate Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG980872-4 QC Sample: L1705771-01 Client ID: SM-SURFACE						
Aluminum, Total	4600	4600	mg/kg	0		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	3.5	6.1	mg/kg	54	Q	20
Barium, Total	81.	77	mg/kg	5		20
Beryllium, Total	0.19J	0.19J	mg/kg	NC		20
Cadmium, Total	0.42J	0.53J	mg/kg	NC		20
Calcium, Total	16000	15000	mg/kg	6		20
Chromium, Total	16.	17	mg/kg	6		20
Cobalt, Total	3.9	4.0	mg/kg	3		20
Copper, Total	28.	36	mg/kg	25	Q	20
Iron, Total	9200	24000	mg/kg	89	Q	20
Lead, Total	200	180	mg/kg	11		20
Magnesium, Total	2500	1800	mg/kg	33	Q	20
Manganese, Total	150	320	mg/kg	72	Q	20
Nickel, Total	13.	13	mg/kg	0		20
Potassium, Total	470	460	mg/kg	2		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	130J	130J	mg/kg	NC		20



Lab Duplicate Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG980872-4 QC Sample: L1705771-01 Client ID: SM-SURFACE					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	18.	20	mg/kg	11	20
Zinc, Total	120	100	mg/kg	18	20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG980971-4 QC Sample: L1705771-01 Client ID: SM-SURFACE					
Mercury, Total	0.11	0.15	mg/kg	31	20



INORGANICS & MISCELLANEOUS

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-01
Client ID: SM-SURFACE
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil

Date Collected: 02/22/17 08:45
Date Received: 02/23/17
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	88.8		%	0.100	NA	1	-	02/24/17 13:54	121,2540G	RI



Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-02
Client ID: SM-1 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil

Date Collected: 02/22/17 09:00
Date Received: 02/23/17
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	86.4		%	0.100	NA	1	-	02/24/17 13:54	121,2540G	RI



Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-03
Client ID: SM-1 (13-14)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil

Date Collected: 02/22/17 09:15
Date Received: 02/23/17
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	95.2		%	0.100	NA	1	-	02/24/17 13:54	121,2540G	RI



Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-04
Client ID: SM-2 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil

Date Collected: 02/22/17 13:30
Date Received: 02/23/17
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	80.5		%	0.100	NA	1	-	02/24/17 13:54	121,2540G	RI



Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-05
Client ID: SM-2 (5-7)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil

Date Collected: 02/22/17 13:40
Date Received: 02/23/17
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	90.4		%	0.100	NA	1	-	02/24/17 13:54	121,2540G	RI



Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-06
Client ID: BUS-1 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil

Date Collected: 02/22/17 10:55
Date Received: 02/23/17
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	88.6		%	0.100	NA	1	-	02/24/17 13:54	121,2540G	RI



Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-07
Client ID: BUS-1 (13-14)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil

Date Collected: 02/22/17 11:00
Date Received: 02/23/17
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	98.5		%	0.100	NA	1	-	02/24/17 13:54	121,2540G	RI



Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-08
Client ID: BUS-2 (0-2)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil

Date Collected: 02/22/17 11:55
Date Received: 02/23/17
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	90.5		%	0.100	NA	1	-	02/24/17 13:54	121,2540G	RI



Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-09
Client ID: BUS-2 (10-12)
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil

Date Collected: 02/22/17 12:10
Date Received: 02/23/17
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	95.6		%	0.100	NA	1	-	02/24/17 13:54	121,2540G	RI



Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

SAMPLE RESULTS

Lab ID: L1705771-10
Client ID: BUS-3
Sample Location: FAR ROCKAWAY, NY
Matrix: Soil

Date Collected: 02/22/17 11:45
Date Received: 02/23/17
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	85.0		%	0.100	NA	1	-	02/24/17 13:54	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control

Project Name: PHIPPS/FAR ROCKAWAY
Project Number: Not Specified

Lab Number: L1705771
Report Date: 03/02/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG980798-1 QC Sample: L1705771-01 Client ID: SM-SURFACE						
Solids, Total	88.8	89.4	%	1		20



Project Name: PHIPPS/FAR ROCKAWAY

Project Number: Not Specified

Lab Number: L1705771

Report Date: 03/02/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 24-FEB-17 07:16

Cooler Information Custody Seal

Cooler

B Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1705771-01A	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-01B	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-01C	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-01D	Plastic 2oz unpreserved for TS	B	N/A	4.4	Y	Absent	TS(7)
L1705771-01E	Metals Only - Glass 60mL/2oz unp	B	N/A	4.4	Y	Absent	BE-TI(180),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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1705771-01F	Glass 250ml/8oz unpreserved	B	N/A	4.4	Y	Absent	NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L1705771-01X	Vial MeOH preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-01Y	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-01Z	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-02A	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-02B	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-02C	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-02D	Plastic 2oz unpreserved for TS	B	N/A	4.4	Y	Absent	TS(7)
L1705771-02E	Metals Only - Glass 60mL/2oz unp	B	N/A	4.4	Y	Absent	BE-TI(180),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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1705771-02F	Glass 250ml/8oz unpreserved	B	N/A	4.4	Y	Absent	NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)

*Values in parentheses indicate holding time in days



Project Name: PHIPPS/FAR ROCKAWAY

Project Number: Not Specified

Lab Number: L1705771

Report Date: 03/02/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1705771-02X	Vial MeOH preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-02Y	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-02Z	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-03A	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-03B	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-03C	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-03D	Plastic 2oz unpreserved for TS	B	N/A	4.4	Y	Absent	TS(7)
L1705771-03E	Metals Only - Glass 60mL/2oz unp	B	N/A	4.4	Y	Absent	BE-TI(180),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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1705771-03F	Glass 250ml/8oz unpreserved	B	N/A	4.4	Y	Absent	NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L1705771-03X	Vial MeOH preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-03Y	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-03Z	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-04A	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-04B	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-04C	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-04D	Plastic 2oz unpreserved for TS	B	N/A	4.4	Y	Absent	TS(7)
L1705771-04E	Metals Only - Glass 60mL/2oz unp	B	N/A	4.4	Y	Absent	BE-TI(180),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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1705771-04F	Glass 250ml/8oz unpreserved	B	N/A	4.4	Y	Absent	NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L1705771-04X	Vial MeOH preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-04Y	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-04Z	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-05A	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-05B	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-05C	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)

*Values in parentheses indicate holding time in days



Project Name: PHIPPS/FAR ROCKAWAY**Project Number:** Not Specified**Lab Number:** L1705771**Report Date:** 03/02/17**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1705771-05D	Plastic 2oz unpreserved for TS	B	N/A	4.4	Y	Absent	TS(7)
L1705771-05E	Metals Only - Glass 60mL/2oz unp	B	N/A	4.4	Y	Absent	BE-Ti(180),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),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1705771-05F	Glass 250ml/8oz unpreserved	B	N/A	4.4	Y	Absent	NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L1705771-05X	Vial MeOH preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-05Y	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-05Z	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-06A	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-06B	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-06C	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-06D	Plastic 2oz unpreserved for TS	B	N/A	4.4	Y	Absent	TS(7)
L1705771-06E	Metals Only - Glass 60mL/2oz unp	B	N/A	4.4	Y	Absent	BE-Ti(180),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),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1705771-06F	Glass 250ml/8oz unpreserved	B	N/A	4.4	Y	Absent	NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L1705771-06X	Vial MeOH preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-06Y	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-06Z	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-07A	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-07B	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-07C	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-07D	Plastic 2oz unpreserved for TS	B	N/A	4.4	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days



Project Name: PHIPPS/FAR ROCKAWAY**Project Number:** Not Specified**Lab Number:** L1705771**Report Date:** 03/02/17**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1705771-07E	Metals Only - Glass 60mL/2oz unp	B	N/A	4.4	Y	Absent	BE-TI(180),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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1705771-07F	Glass 250ml/8oz unpreserved	B	N/A	4.4	Y	Absent	NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L1705771-07X	Vial MeOH preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-07Y	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-07Z	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-08A	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-08B	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-08C	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-08D	Plastic 2oz unpreserved for TS	B	N/A	4.4	Y	Absent	TS(7)
L1705771-08E	Metals Only - Glass 60mL/2oz unp	B	N/A	4.4	Y	Absent	BE-TI(180),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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1705771-08F	Glass 250ml/8oz unpreserved	B	N/A	4.4	Y	Absent	NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L1705771-08X	Vial MeOH preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-08Y	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-08Z	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-09A	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-09B	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-09C	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-09D	Plastic 2oz unpreserved for TS	B	N/A	4.4	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days



Project Name: PHIPPS/FAR ROCKAWAY

Project Number: Not Specified

Lab Number: L1705771

Report Date: 03/02/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1705771-09E	Metals Only - Glass 60mL/2oz unp	B	N/A	4.4	Y	Absent	BE-TI(180),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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1705771-09F	Glass 250ml/8oz unpreserved	B	N/A	4.4	Y	Absent	NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L1705771-09X	Vial MeOH preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-09Y	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-09Z	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-10A	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-10B	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-10C	5 gram Encore Sampler	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(2)
L1705771-10D	Plastic 2oz unpreserved for TS	B	N/A	4.4	Y	Absent	TS(7)
L1705771-10E	Metals Only - Glass 60mL/2oz unp	B	N/A	4.4	Y	Absent	BE-TI(180),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),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1705771-10F	Glass 250ml/8oz unpreserved	B	N/A	4.4	Y	Absent	NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L1705771-10X	Vial MeOH preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-10Y	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)
L1705771-10Z	Vial Water preserved split	B	N/A	4.4	Y	Absent	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days



Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
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.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers



Project Name: PHIPPS/FAR ROCKAWAY**Lab Number:** L1705771**Project Number:** Not Specified**Report Date:** 03/02/17**Data Qualifiers**

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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.
 - 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.
 - S** - Analytical results are from modified screening analysis.
 - 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.

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

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Title: **Certificate/Approval Program Summary**

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA 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, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** 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**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

