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11 March 2016

Zachary Russo
Remedial Bureau E
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7017

RE: Pre-Design Investigation Soil Sampling Report
Contract/WA No: D007624-30
Sewall's Island Site, Watertown, New York (E623021)

Dear Mr. Russo:

This letter report describes the soil sampling activities completed in September 2015 and February 2016 as part of the pre-design investigation (PDI) at the Sewall's Island Site (E623021) located in Watertown, New York. Lu Engineers previously completed a remedial investigation (RI) and Interim Remedial Measures, and presented the findings in an Engineering Report¹. The Engineering Report defined the conceptual site model which was used to develop remedial alternatives. The data provided in the Engineering Report, along with the results of this PDI, will be used to prepare a remedial design that will meet the remediation goals and objectives outlined in the New York State Department of Environmental Conservation (NYSDEC) Record of Decision (ROD) (2013)² and 2015 ROD Amendment. EA Engineering, P.C. and its affiliate EA Science and Technology (EA) has completed the following soil sampling tasks as part of the PDI:

- Collection of 23 soil samples from 0-1 and 0-2 feet below ground surface
- Collection of 12 soil samples from 0-6 inches below ground surface
- Collection of 7 concrete samples from concrete pads and debris across the site
- Laboratory analysis of samples for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOC), and metals including mercury.

SITE DESCRIPTION

¹ Lu Engineers. 2012. *Final Engineering Report for Remedial Investigation, Interim Remedial Measures, and Alternatives Analysis*. May.

² NYSDEC. 2013. *Record of Decision Sewall's Island Environmental Restoration Project, Watertown, Jefferson County, Site No. E623021*. March.



The Sewall's Island site is located at 400 Pearl Street in the City of Watertown, Jefferson County, New York, primarily on Sewall's Island in the Black River (Figure 1). The site is approximately 15 acres in size and contains 5 parcels on Sewall's Island, 2 parcels on Huntington Street to the south, and 4 parcels on Water Street to the north (Figure 2). The island portion of the site is fenced with locked gates, while the Water Street parcel to the north is unfenced. The majority of the site is covered by grass, brush, and trees. Concrete slabs and foundations of demolished buildings/structures remain on the property, and a former railroad bed transects Sewall's Island from southwest to northeast.

The site is currently vacant and zoned for commercial use. On January 9, 2015, the Department approved an amendment to the 2013 ROD allowing for active recreational use (restricted residential use) on a portion of the site consisting of approximately 5.6 acres.

SITE HISTORY

The Sewall's Island site was used for industrial purposes, including manufacturing and operation of an industrial foundry, from the mid-1800s until the early 1990s. A rail line with multiple spurs also operated across the island. Companies that occupied the site include the following:

- Bagley & Sewall—producers of engines, boilers, mowing machines, bench vices rotary pumps, iron castings for sewing machines, and printing presses
- Excelsior Carriage Company
- Remington Paper Company/International Paper
- Continental Paper Bag Company
- Davis Sewing Machine Works
- A building supply company
- Black Clawson Company.

The island portion of the site was operated as a foundry and machine shop plant from 1823 until approximately 1853. Bagley & Sewall conducted manufacturing and operated an industrial foundry at site from 1853 until the 1950s, with manufacturing through the 1880s consisting of production of mill gearings, factory machinery, engines, boilers, mowing machines, agricultural machinery, rotary pumps, bench vices, iron castings for sewing machines, and brake castings. In the 1860s, the company began focusing on the paper industry, with manufacturing of printing presses and paper-making machines. Also on the island, The Davis Sewing Machine Works operated from the 1870s until 1888, followed by The Excelsior Carriage Company from 1889 into the early 1900s. In 1912, the Bagley & Sewall's Plant expanded across the north branch of the Black River and in 1949, the Plant expanded across most of Sewall's Island. The southern part of the island at this time was used for pulp, wood, and paper piling, while a coal company

operated on the northeastern portion. An approximately 2-acre landfill on the island southwest of the rail bed was operated by Bagley & Sewall for disposal of foundry sand and coke, slag, brick, metal, concrete and large pieces of the hardened impurities from the casting process. Parcels of the site south of the Black River were used for railroad tracks and parking, while parcels north of the river included a coal and building supply company and a hydro-power house for Bagley & Sewall.

In the 1950s, Bagley & Sewall was sold to the Black Clawson Company. Operations at the site ceased in the 1990s, and Black Clawson began an environmental assessment and demolition of site buildings. The City of Watertown obtained the property in 2006, and the site has since remained vacant.

Contamination at the site is related to foundry and manufacturing operations that occurred on Sewall's Island, including metals casting, pulp grinding, machining, painting, sanding, and paper milling. Operations included the use of fuels such as coal, coke, and fuel oil to fire foundry furnaces and facility boilers. A variety of chemicals were used at the site, including sodium hydroxide, solvents, resins, paints, fuels, transformer fluids, oils, and cleaning materials. A petroleum spill of #2 fuel oil was also identified on the southern side of the island in 1998 (NYSDEC Spill #9810485). A second spill was recorded as a result of contamination found during reconstruction of Pearl Street in 2004 (NYSDEC Spill #0403745).

SUMMARY OF PREVIOUS INVESTIGATIONS

Previous investigations conducted at the site between 1998 and 2010 are summarized below. A summary of previous soil analytical data is provided in Attachment A.

- A site investigation was conducted at 4 parcels on the site in 1998 by GYMO on behalf of Black Clawson Company, and included a limited subsurface investigation with 26 Geoprobe borings (Figure 3a)³. Elevated levels of heavy metals including arsenic, chromium, copper, lead, and mercury were detected in borings across the island.
- A Phase I Environmental Site Assessment was completed in 2007 by Lu Engineers on behalf of the City of Watertown to identify recognized environmental conditions and recommend further investigative activities⁴.
- An RI was conducted by Lu Engineers on behalf of the City of Watertown from June 2008 through December 2010 to define the nature and extent of contamination resulting from previous activities at the site (Figure 3b)¹. The following activities were conducted as part of the RI:
 - Research of historical information
 - Geophysical surveying to determine the lateral extent of wastes

³ GYMO. 2001. *Site Investigation & Remedial Report*. November.

⁴ Lu Engineers. 2007. *Phase I Environmental Site Assessment*. March.

- Surface soil sampling
 - Text pit excavations and sampling
 - Subsurface soil borings and sampling
 - Monitoring well installation
 - Groundwater sampling
 - Aquifer testing
 - Site survey
 - Ecological and Human Health Exposure Assessment
 - Development of remedial alternatives.
- Interim Remedial Measures were completed by Lu Engineers from June 2008 through December 2010 to address contaminant sources identified during the RI as follows (Figure 3c)¹:
 - A total of 42 buried drums identified in the onsite landfill containing residual petroleum products, paint, solid waste, solvents, and mineral spirits were excavated and removed.
 - Drummed materials and approximately 750 tons of mercury-contaminated soil identified on the northern parcel of the property between Water Street and the northern branch of the Black River were excavated and removed.
 - Eight extraction wells were installed and a total fluid vacuum extraction system was operated from September to December 2011 to extract groundwater and petroleum product from an area of free-product petroleum identified on the south side of the site along the eastern side of the Pearl Street Bridge Crossing. A total of 850 gallons of petroleum was recovered for disposal, and 55,000 gallons of contaminated groundwater were treated. Free product levels were reduced to non-detect.

Analytical data collected during the RI identified contaminants of concern (COCs). A COC is a hazardous waste originating from site activities that is sufficiently present in frequency and concentration in the environment to require evaluation for remedial action. Not all contaminants identified on the property are COCs. A full discussion of the data and the nature and extent of contamination and environmental media requiring action are summarized in the 2012 Final Engineering Report¹. The COCs identified at this site are VOCs, SVOCs, and metals, with concentrations exceeding soil cleanup objectives (SCOs) as set forth in 6 New York Codes, Rules and Regulations (NYCRR) Part 375-6.7(d).

Record of Decision – Summary of the Selected Remedy

The NYSDEC ROD (2013)² and 2015 amendment identified the selected remedy as site cover with institutional controls. The selected remedy was based on the results of the RI and evaluation of alternatives in the Final Engineering Report (Lu Engineers 2012)¹. The site cover will be required on the main portion of the site (Sewall's Island) and on parcels north and south of the island along Water Street and Huntington Street. The cover will consist of either

structures (i.e., buildings, pavement, or sidewalks comprising the site development) or a soil cover in areas where the upper 1 or 2 feet of soil exceeds applicable commercial or restricted residential SCOs, as based on zoning and anticipated future use of the site (Figure 2). In areas zoned for commercial usage, a minimum of 1 foot of soil will be installed, with materials used for the soil cover meeting commercial SCOs for cover material. In areas zoned for restricted residential usage, a minimum of 2 feet soil cover will be installed, with materials used for the soil cover meeting restricted residential SCOs. The soil cover will be placed over a demarcation layer.

PRE-DESIGN SOIL INVESTIGATION

The objective of the PDI soil sampling was to refine or confirm the extents of surface soil contamination onsite and characterize concrete debris to determine whether or not it could be used as fill or cover material. Data collected for this PDI will be used to define the limits of soil cover for the remedial design.

Implementation

A review of analytical results from the previous investigations indicated that SVOCs (polyaromatic hydrocarbons [PAHs] benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, indeno[1,2,3-cd]pyrene) and metals (arsenic, barium, cadmium, chromium, copper, lead, manganese, and mercury) were detected at concentrations exceeding commercial and/or restricted residential SCOs. Concrete sampling locations and additional soil sampling locations for this PDI (September 2015) were identified based on existing data, and a review of zoning and anticipated future use of the site (i.e., commercial versus restricted residential). A second round of soil samples was collected in February 2016 as part of the PDI from the top six inches of soil following review of the initial (September 2015) sampling results. Sampling locations were selected prior to field mobilization and identified in the field using a global positioning system—Trimble unit. A total of 23 surface-soil samples and 7 composite concrete samples were collected during the initial PDI field effort. Twelve surface-soil samples were collected during the second PDI field effort. A summary of the soil sampling locations is provided in Table 1. Field locations sampled during the PDI are shown on Figure 4.

Soil samples were collected by EA field personnel using a stainless steel shovel. Soil from the full 1 or 2 feet intervals were composited in a dedicated plastic re-sealable zipper storage bag prior to placing in the sample jars. VOC samples were collected as grab samples from the center of the interval. Shovels were decontaminated withalconox and nitric acid between sample locations.

Concrete samples were collected by breaking off pieces of concrete and crushing/pulverizing the concrete into small particles/dust with a hammer.

Samples were placed in sample jars provided by Con-test Analytical Laboratory, an Environmental Laboratory Approval Program-certified laboratory located in East Longmeadow,

Massachusetts. Field sampling equipment was decontaminated between soil sampling locations using a mild liquid detergent and nitric acid, and rinsed with potable water. All samples were sent to Con-test and analyzed for VOCs by United States Environmental Protection Agency (EPA) Method 8260C, SVOCs by EPA Method 8270D, and metals including mercury by EPA methods 6010C, and 7471B.

Quality Assurance / Quality Control

All samples were labeled, handled, and packaged following the procedures described in the Generic Quality Assurance Project Plan (QAPP) (EA 2011c)⁵. Two duplicate, two matrix-spike, two matrix-spike duplicate samples, and two rinse-blank samples were collected and analyzed to meet the requirements of the QAPP. The analytical package is provided in Attachment B.

Soil Sampling Results

VOCs were not detected in any of the PDI samples at concentrations exceeding commercial or restricted residential use SCOs. PAHs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenz[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, phenanthrene, and pyrene) were detected above restricted residential use SCOs in 19 samples, with concentrations in 11 samples also detected above commercial use SCOs. Metals (arsenic, copper, barium, lead, and mercury) were detected at concentrations above both restricted residential and commercial use SCOs in 19 surface-soil samples. Mercury was detected at a concentration greater than the restricted residential use SCO but less than the commercial use SCO in SS-72. Surface-soil analytical results are summarized in Tables 2 through 4 and presented in Figures 5a and 5b.

Concrete Sampling Results

VOCs were not detected in any of the PDI concrete samples at concentrations exceeding commercial or restricted residential SCOs. PAHs (benzo[a]anthracene, benzo[k]fluoranthene, chrysene, and dibenz[a,h]anthracene) were detected above restricted residential SCOs only in 1 of 7 concrete samples (CD-01). Arsenic was detected in all 7 concrete samples at concentrations above the restricted residential and commercial SCOs (16 milligrams per kilogram [mg/kg] each), with concentrations ranging from 39 to 63 mg/kg. In addition, the cadmium concentration for CD-07 (6.2 mg/kg) was detected above the restricted residential SCO (4.3 mg/kg). Concrete analytical results are summarized in Tables 5 through 7 and presented in Figures 6a and 6b.

DISCUSSION

A qualitative summary of the soil sampling results for data generated during the previous investigations and the PDI is presented on Figure 7. This figure shows all surface soil (0-2 ft, as appropriate) exceedances of restricted residential and commercial use SCOs. There are no data

⁵ EA. 2011c. Generic QAPP for Work Assignments Contract D007624. April.



gaps at this point; in the event that re-grading of the site is required to change the site topography, further analysis and/or sampling may be necessary.

CONCLUSIONS

Previous soil sampling analytical results and data generated during this PDI were used to generate the footprints for proposed cover areas and associated site use for the Sewall's Island Site. The proposed cover locations and site use designations are presented on Figure 8.

If you have any questions regarding the results of this PDI soil sampling report, please do not hesitate to contact me at (315) 431-4610.

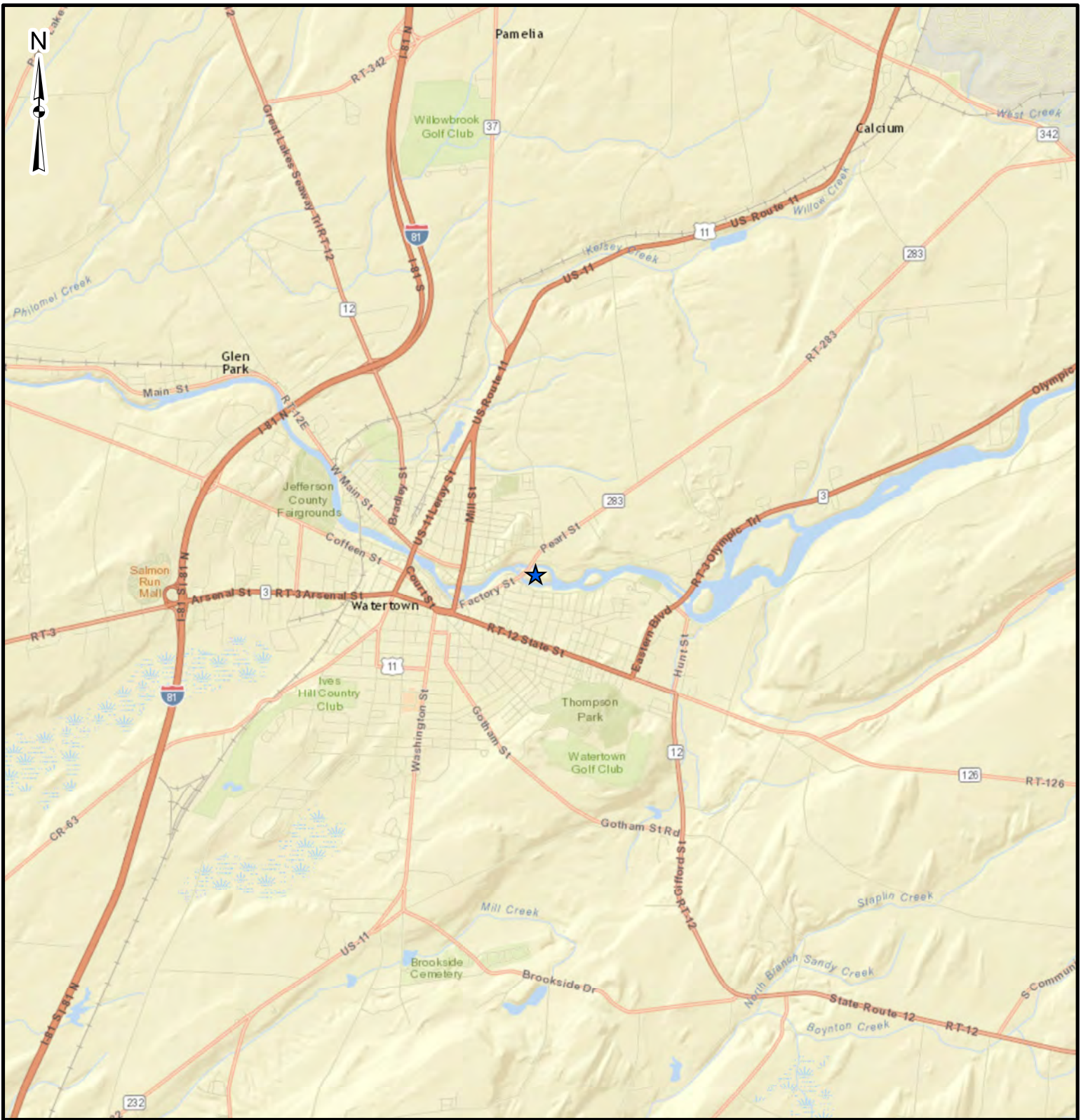
Sincerely yours,

EA ENGINEERING, P.C.

A handwritten signature in black ink that reads "James C. Hayward". The signature is written in a cursive, flowing style.

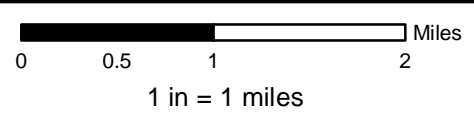
James Hayward
Project Manager

Attachment A—Previous Investigations Analytical Summary Tables
Attachment B—PDI Laboratory Analytical Package



Legend

★ Sewalls Island Location



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**PRE-DESIGN INVESTIGATION
SEWALL'S ISLAND (SITE NO. E623021)
WATERTOWN, NEW YORK**

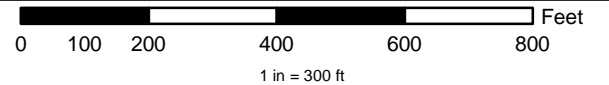
**FIGURE 1
SITE LOCATION**

PROJECT MGR: JCH	DESIGNED BY: CJS	CREATED BY: ALK	CHECKED BY: JCH	SCALE: AS SHOWN	DATE: MAR 2016	PROJECT NO: 14907.30	FILE NO: GIS\PROJECTS\ PDI LETTER
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Legend

- ▭ Tax Parcel Restricted Residential Use
- ▭ Tax Parcel Commercial Use



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**PRE-DESIGN INVESTIGATION
SEWALL'S ISLAND (SITE NO. E623021)
WATERTOWN, NEW YORK**

**FIGURE 2
Site Layout**

PROJECT MGR:
JCH

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ALK

CREATED BY:
ALK

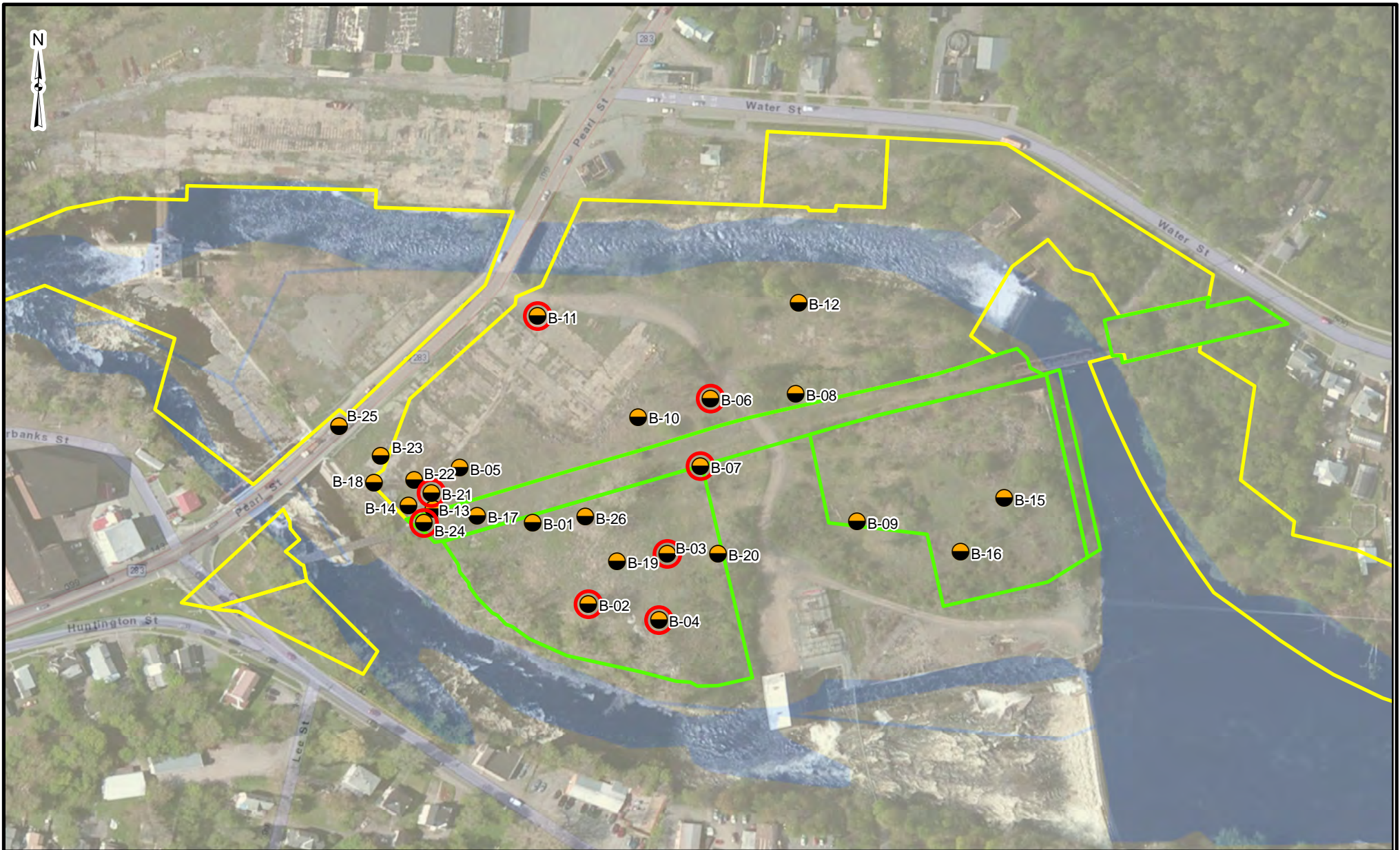
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MAR 2016

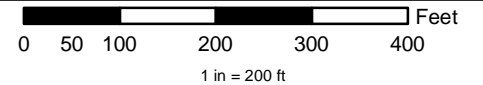
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Legend

- █ Tax Parcel restricted Residential Use
- █ Tax Parcel Commercial Use
- Soil Boring
- Exceeds Commercial SCOs



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**PRE-DESIGN INVESTIGATION
SEWALL'S ISLAND (SITE NO. E623021)
WATERTOWN, NEW YORK**

**FIGURE 3a
1998 GYMO Subsurface Investigation
Sampling Locations**

PROJECT MGR:
JCH

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ALK

CREATED BY:
ALK

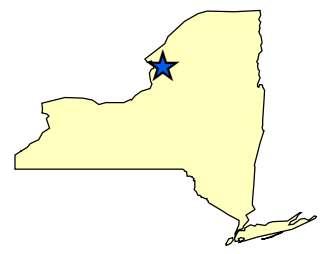
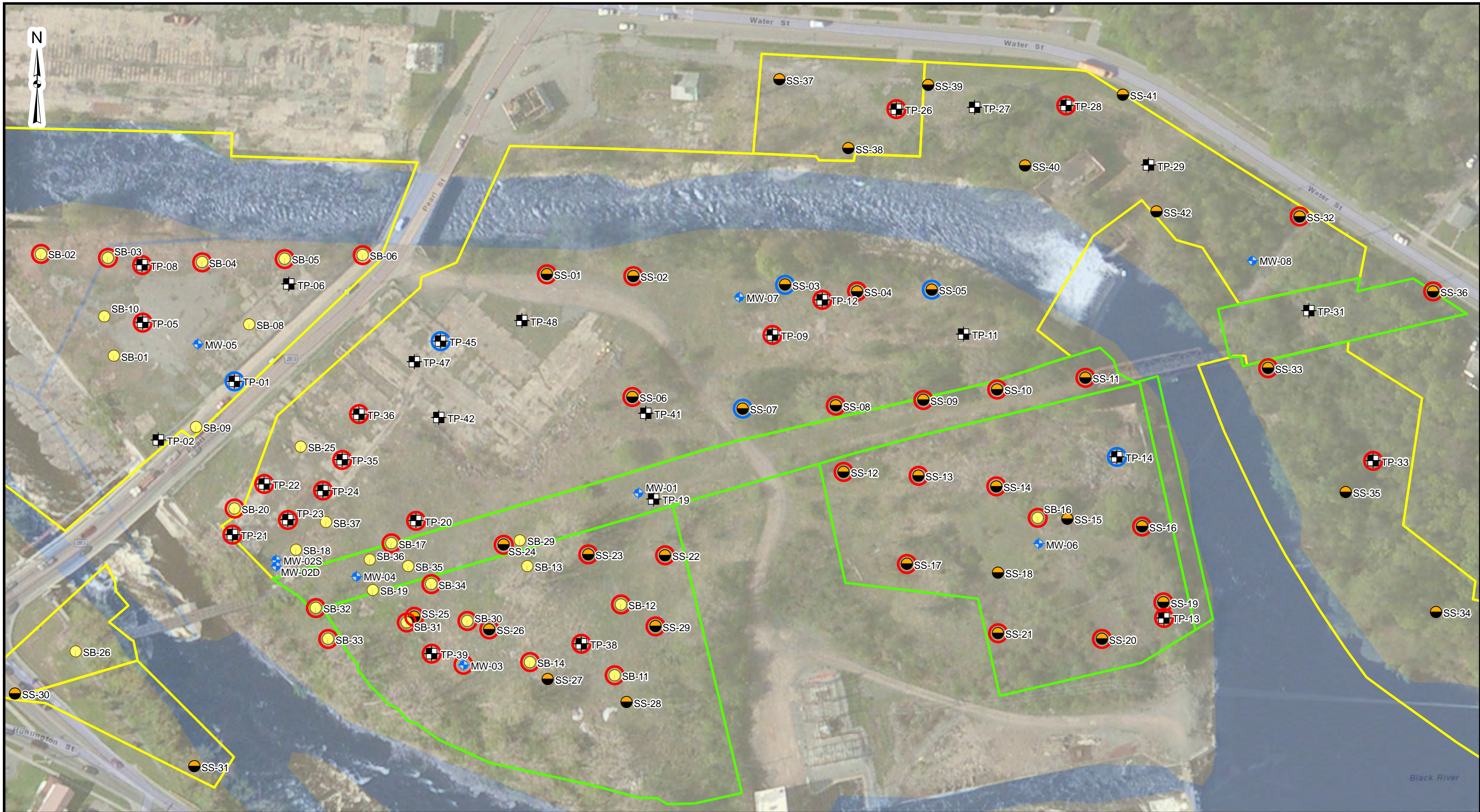
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DATE:
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14907.30

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Legend

- Tax Parcel Restricted Residential Use
- Tax Parcel Commercial Use
- Previous Remedial Action Locations
- Surface Soil
- Test Pit
- Soil Boring
- Monitoring Well
- Exceeds Commercial SCOs
- Exceeds Restricted Residential SCOs

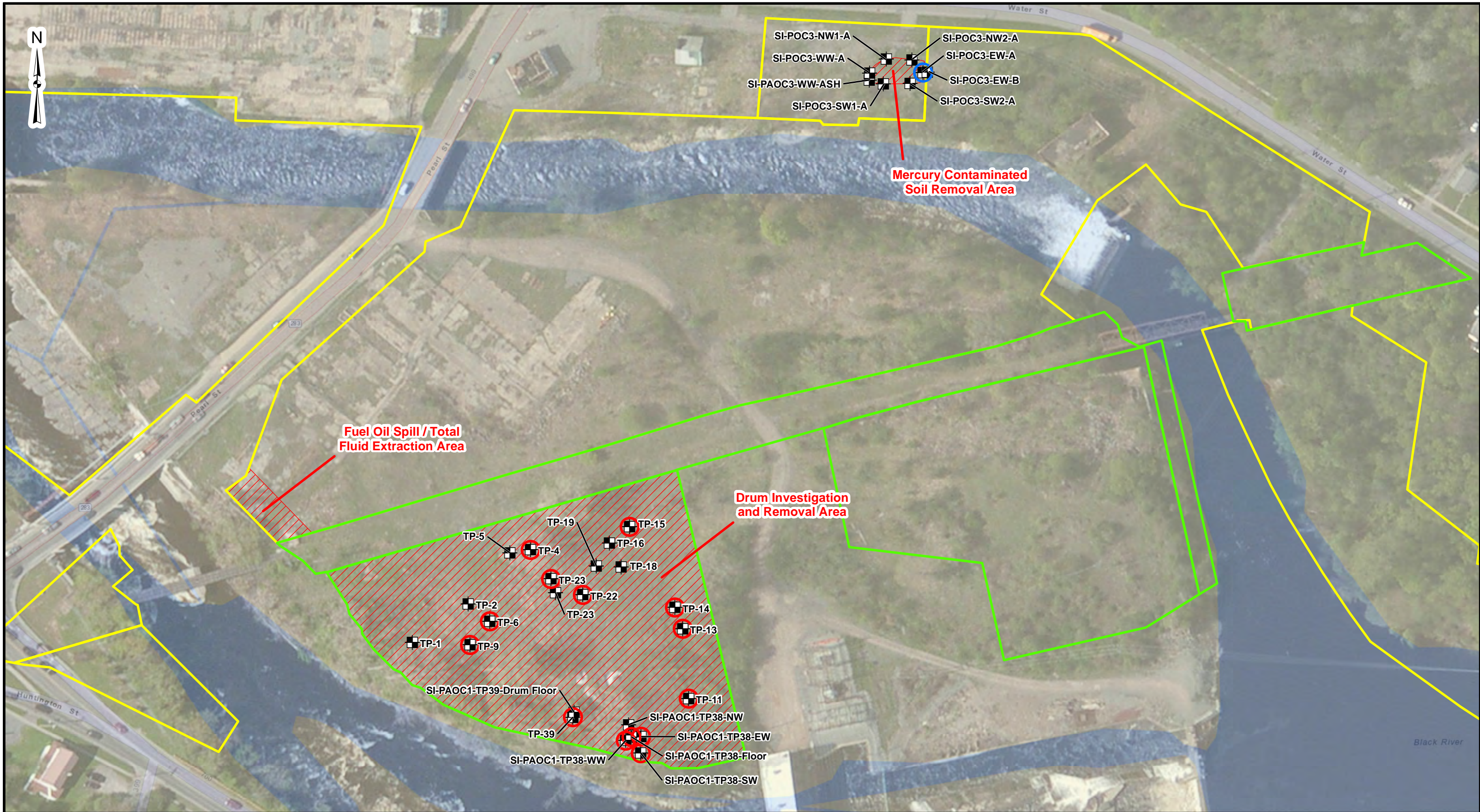
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**FIGURE 3b
Remedial Investigation
Sampling Locations**

0 50 100 200 Feet
1 inch = 100 feet



Fuel Oil Spill / Total Fluid Extraction Area

Mercury Contaminated Soil Removal Area

Drum Investigation and Removal Area

Legend

- Tax Parcel Restricted Residential Use
- Tax Parcel Commercial Use
- Interim Remedial Measure Location
- + Test Pit
- Exceeds Commercial SCOs
- Exceeds Restricted Residential SCOs

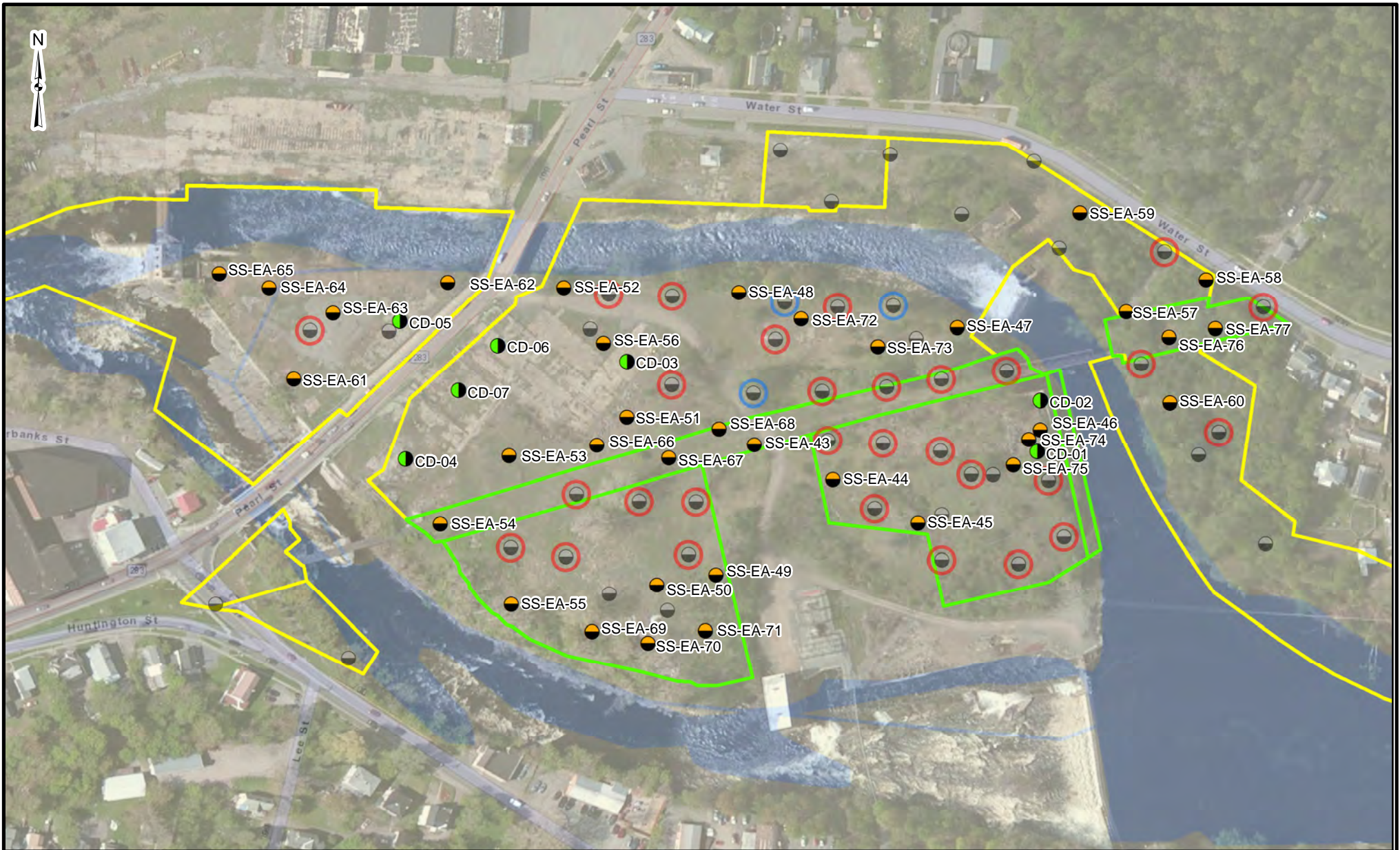
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**FIGURE 3c
Interim Remedial Measures
Sampling Locations**

0 50 100 200 Feet
1 inch = 100 feet

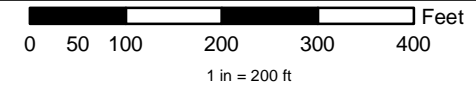


Legend

- ▭ Tax Parcel Restricted Residential Use
- ▭ Tax Parcel Commercial Use
- PDI Surface Soil Sampling Location
- PDI Composite Concrete Sampling Location

RI Surface Soil Sampling

- RI Surface Soil and Shallow Subsurface Soil Sampling Location
- Exceeds Restricted Residential SCOs
- Exceeds Commercial SCOs



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**PRE-DESIGN INVESTIGATION
SEWALL'S ISLAND (SITE NO. E623021)
WATERTOWN, NEW YORK**

**FIGURE 4
Remedial Investigation and Pre-Design
Investigation Sampling Locations**

PROJECT MGR:
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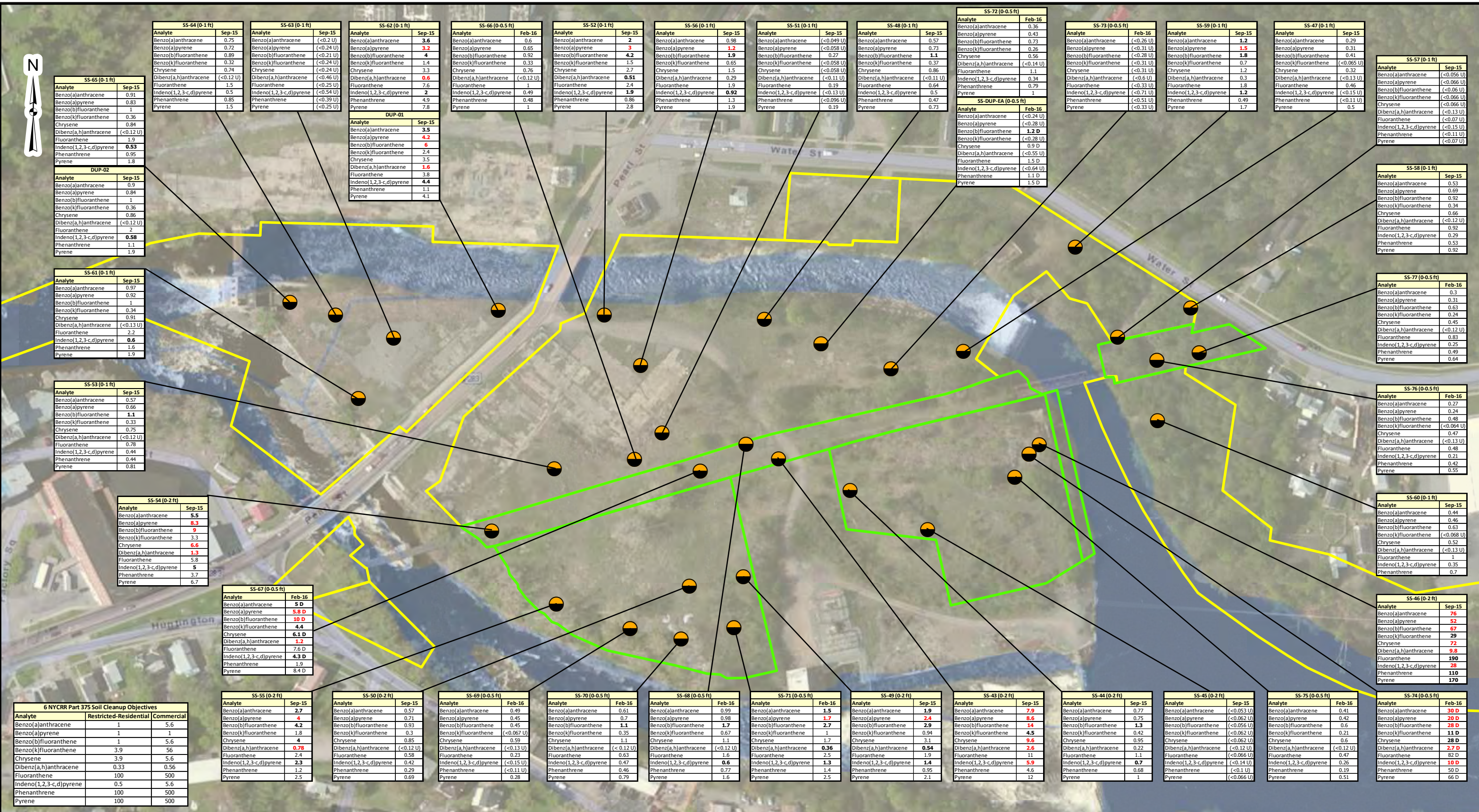
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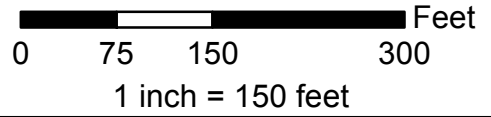
Legend

- Tax Parcel Restricted Residential Use
- Tax Parcel Commercial Use
- PDI Surface Soil Sampling Location

Note: All concentrations reported in milligrams per kilogram (mg/kg).
 U = The concentration was not detected. The associated value is the method detection limit.
 Concentrations in Bold were detected above restricted residential SCOs.
 Concentrations in Red = were detected above commercial SCOs.

**PRE-DESIGN INVESTIGATION
 SEWALL'S ISLAND (SITE NO. E623021)
 WATERTOWN, NEW YORK**

**FIGURE 5a
 Pre-Design Investigation
 Surface Soil PAH
 Analytical Results
 (September 2015 and February 2016)**



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SS-62 (0-1 ft)		DUP-01	
Analyte	Sep-15	Analyte	Sep-15
Arsenic	14	Arsenic	20
Barium	73	Barium	46
Cadmium	(<0.074 U)	Cadmium	0.64
Chromium	11	Chromium	23
Copper	24	Copper	69
Lead	190	Lead	110
Manganese	290	Manganese	480
Mercury	0.33	Mercury	0.27

SS-51 (0-1 ft)	
Analyte	Sep-15
Arsenic	(<0.79 U)
Barium	26
Cadmium	0.59
Chromium	7.1
Copper	10
Lead	26
Manganese	110
Mercury	0.053

SS-52 (0-1 ft)	
Analyte	Sep-15
Arsenic	23
Barium	40
Cadmium	0.6
Chromium	23
Copper	69
Lead	110
Manganese	350
Mercury	0.14

SS-56 (0-1 ft)	
Analyte	Sep-15
Arsenic	7.9
Barium	68
Cadmium	0.44
Chromium	9.1
Copper	110
Lead	120
Manganese	220
Mercury	0.13

SS-68 (0-0.5 ft)	
Analyte	Feb-16
Arsenic	84
Barium	93
Cadmium	3
Chromium	24
Copper	790
Lead	430
Manganese	550
Mercury	0.15

SS-48 (0-1 ft)	
Analyte	Sep-15
Arsenic	39
Barium	43
Cadmium	0.5
Chromium	14
Copper	39
Lead	76
Manganese	390
Mercury	0.093

SS-43 (0-2 ft)	
Analyte	Sep-15
Arsenic	19
Barium	94
Cadmium	1.5
Chromium	41
Copper	380
Lead	330
Manganese	420
Mercury	0.25

SS-72 (0-0.5 ft)	
Analyte	Feb-16
Arsenic	7.1
Barium	75
Cadmium	0.7
Chromium	18
Copper	65
Lead	320
Manganese	470
Mercury	2.3 D

SS-73 (0-0.5 ft)	
Analyte	Feb-16
Arsenic	(<0.61 U)
Barium	99
Cadmium	0.39
Chromium	14
Copper	13
Lead	1,000
Manganese	160
Mercury	0.47

SS-59 (0-1 ft)	
Analyte	Sep-15
Arsenic	20
Barium	140
Cadmium	0.56
Chromium	15
Copper	34
Lead	100
Manganese	360
Mercury	0.097

SS-47 (0-1 ft)	
Analyte	Sep-15
Arsenic	31
Barium	58
Cadmium	0.37
Chromium	7.7
Copper	17
Lead	76
Manganese	410
Mercury	0.6

SS-57 (0-1 ft)	
Analyte	Sep-15
Arsenic	4.3
Barium	120
Cadmium	(<0.08 U)
Chromium	17
Copper	21
Lead	25
Manganese	380
Mercury	0.049

SS-57-Dup-01 (0-1 ft)	
Analyte	Sep-15
Arsenic	3.77
Barium	118
Cadmium	(<0.083 U)
Chromium	17
Copper	20.5
Lead	23.3
Manganese	403
Mercury	0.0579

SS-64 (0-1 ft)		SS-64-Dup-01 (0-1 ft)	
Analyte	Sep-15	Analyte	Sep-15
Arsenic	17	Arsenic	4.45
Barium	83	Barium	58.8
Cadmium	(<0.079 U)	Cadmium	(<0.076 U)
Chromium	12	Chromium	9.62
Copper	11	Copper	13
Lead	190	Lead	119
Manganese	340	Manganese	223
Mercury	0.076	Mercury	0.0762

SS-65 (0-1 ft)		DUP-02	
Analyte	Sep-15	Analyte	Sep-15
Arsenic	18	Arsenic	5.2
Barium	22	Barium	21
Cadmium	(<0.074 U)	Cadmium	(<0.077 U)
Chromium	4.1	Chromium	3.6
Copper	5.1	Copper	2.3
Lead	81	Lead	48
Manganese	170	Manganese	110
Mercury	0.13	Mercury	0.11

SS-63 (0-1 ft)	
Analyte	Sep-15
Arsenic	29
Barium	73
Cadmium	0.48
Chromium	42
Copper	350
Lead	230
Manganese	1700
Mercury	0.74

SS-61 (0-1 ft)	
Analyte	Sep-15
Arsenic	23
Barium	230
Cadmium	0.53
Chromium	8
Copper	210
Lead	8,700
Manganese	320
Mercury	0.42

SS-53 (0-1 ft)	
Analyte	Sep-15
Arsenic	6.4
Barium	110
Cadmium	1.2
Chromium	35
Copper	340
Lead	290
Manganese	890
Mercury	0.35

SS-66 (0-0.5 ft)	
Analyte	Feb-16
Arsenic	(<0.54 U)
Barium	78
Cadmium	0.46
Chromium	18
Copper	36
Lead	87
Manganese	420
Mercury	0.38

SS-54 (0-2 ft)	
Analyte	Sep-15
Arsenic	10
Barium	99
Cadmium	2.2
Chromium	43
Copper	170
Lead	280
Manganese	750
Mercury	0.2

SS-67 (0-0.5 ft)	
Analyte	Feb-16
Arsenic	17
Barium	74
Cadmium	1.3
Chromium	28
Copper	120
Lead	140
Manganese	400
Mercury	0.21

6 NYCRR Part 375 Soil Cleanup Objectives		
Analyte	Restricted-Residential	Commercial
Arsenic	16	16
Barium	400	400
Cadmium	4.3	9.3
Chromium	180	1,500
Copper	270	270
Lead	400	1,000
Manganese	2,000	10,000
Mercury	0.81	2.80

SS-55 (0-2 ft)	
Analyte	Sep-15
Arsenic	4.5
Barium	56
Cadmium	1.1
Chromium	18
Copper	79
Lead	120
Manganese	310
Mercury	0.42

SS-69 (0-0.5 ft)	
Analyte	Feb-16
Arsenic	13
Barium	29
Cadmium	(<0.14 U)
Chromium	240
Copper	200
Lead	67
Manganese	1,200
Mercury	0.24

SS-50 (0-2 ft)	
Analyte	Sep-15
Arsenic	50
Barium	41
Cadmium	(<0.071 U)
Chromium	10
Copper	45
Lead	46
Manganese	270
Mercury	0.1

SS-70 (0-0.5 ft)	
Analyte	Feb-16
Arsenic	7.4
Barium	460
Cadmium	0.63
Chromium	59
Copper	95
Lead	99
Manganese	1,100
Mercury	0.81 D

SS-71 (0-0.5 ft)	
Analyte	Feb-16
Arsenic	9.9
Barium	86
Cadmium	1.1
Chromium	35
Copper	420
Lead	310
Manganese	650
Mercury	0.84 D

SS-49 (0-2 ft)	
Analyte	Sep-15
Arsenic	6.3
Barium	49
Cadmium	0.37
Chromium	30
Copper	130
Lead	69
Manganese	510
Mercury	0.12

SS-44 (0-2 ft)	
Analyte	Sep-15
Arsenic	7.5
Barium	67
Cadmium	0.64
Chromium	9.8
Copper	110
Lead	190
Manganese	270
Mercury	0.34

SS-45 (0-2 ft)	
Analyte	Sep-15
Arsenic	3.3
Barium	110
Cadmium	(<0.082 U)
Chromium	18
Copper	14
Lead	8.7
Manganese	430
Mercury	(<0.0051 U)

SS-75 (0-0.5 ft)	
Analyte	Feb-16
Arsenic	(<0.5 U)
Barium	37
Cadmium	(<0.12 U)
Chromium	6.1
Copper	12
Lead	47
Manganese	230
Mercury	0.024

SS-74 (0-0.5 ft)	
Analyte	Feb-16
Arsenic	13
Barium	140
Cadmium	1.5
Chromium	12
Copper	95
Lead	790
Manganese	230
Mercury	3 D

SS-58 (0-1 ft)	
Analyte	Sep-15
Arsenic	6
Barium	53
Cadmium	0.66
Chromium	9.4
Copper	110
Lead	130
Manganese	340
Mercury	0.21

SS-77 (0-0.5 ft)	
Analyte	Feb-16
Arsenic	(<0.5 U)
Barium	45
Cadmium	(<0.13 U)
Chromium	7.8
Copper	48
Lead	47
Manganese	270
Mercury	0.12

SS-76 (0-0.5 ft)	
Analyte	Feb-16
Arsenic	3.2
Barium	97
Cadmium	(<0.14 U)
Chromium	7.5
Copper	84
Lead	76
Manganese	250
Mercury	0.083

SS-60 (0-1 ft)	
Analyte	Sep-15
Arsenic	39
Barium	33
Cadmium	1.1
Chromium	6
Copper	17
Lead	73
Manganese	270
Mercury	0.093

SS-46 (0-2 ft)	
Analyte	Sep-15
Arsenic	35
Barium	470
Cadmium	0.75
Chromium	8.2
Copper	8
Lead	60
Manganese	220
Mercury	0.049

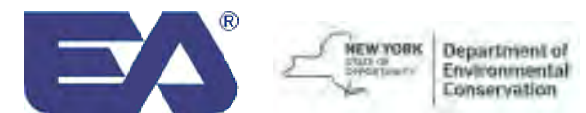
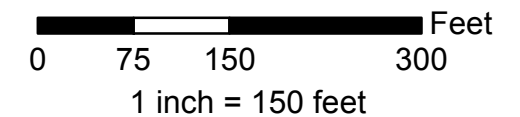
Legend

- ▭ Tax Parcel Restricted Residential Use
- ▭ Tax Parcel Commercial Use
- PDI Surface Soil Sampling Location

Note: All concentrations reported in milligrams per kilogram (mg/kg).
 U = The concentration was not detected. The associated value is the method detection limit.
 Concentrations in Bold were detected above restricted residential SCOs.
 Concentrations in Red = were detected above commercial SCOs.

**PRE-DESIGN INVESTIGATION
 SEWALL'S ISLAND (SITE NO. E623021)
 WATERTOWN, NEW YORK**

**FIGURE 5b
 Pre-Design Investigation
 Surface Soil Metals
 Analytical Results
 (September 2015 and February 2016)**



PROJECT MGR: JCH	DESIGNED BY: ALK	CREATED BY: ALK	CHECKED BY: JCH	SCALE: AS SHOWN	DATE: MAR 2016	PROJECT NO: 14907.30	FILE NO: GISPROJECTS/ PDI_LETTER
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CD-05	
Analyte	Sep-15
Benzo(a)anthracene	(<0.046 U)
Benzo(a)pyrene	(<0.054 U)
Benzo(b)fluoranthene	(<0.049 U)
Benzo(k)fluoranthene	(<0.054 U)
Chrysene	(<0.054 U)
Dibenz(a,h)anthracene	(<0.11 U)
Fluoranthene	(<0.057 U)
Indeno(1,2,3-c,d)pyrene	(<0.12 U)
Phenanthrene	(<0.089 U)
Pyrene	(<0.057 U)

CD-06	
Analyte	Sep-15
Benzo(a)anthracene	(<0.046 U)
Benzo(a)pyrene	(<0.055 U)
Benzo(b)fluoranthene	(<0.049 U)
Benzo(k)fluoranthene	(<0.055 U)
Chrysene	(<0.055 U)
Dibenz(a,h)anthracene	(<0.11 U)
Fluoranthene	(<0.058 U)
Indeno(1,2,3-c,d)pyrene	(<0.13 U)
Phenanthrene	(<0.091 U)
Pyrene	(<0.058 U)

CD-03	
Analyte	Sep-15
Benzo(a)anthracene	(<0.047 U)
Benzo(a)pyrene	(<0.056 U)
Benzo(b)fluoranthene	(<0.051 U)
Benzo(k)fluoranthene	(<0.056 U)
Chrysene	(<0.056 U)
Dibenz(a,h)anthracene	(<0.11 U)
Fluoranthene	(<0.059 U)
Indeno(1,2,3-c,d)pyrene	(<0.13 U)
Phenanthrene	(<0.093 U)
Pyrene	(<0.059 U)

CD-02	
Analyte	Sep-15
Benzo(a)anthracene	0.24
Benzo(a)pyrene	(<0.055 U)
Benzo(b)fluoranthene	0.26
Benzo(k)fluoranthene	(<0.055 U)
Chrysene	0.26
Dibenz(a,h)anthracene	(<0.11 U)
Fluoranthene	0.6
Indeno(1,2,3-c,d)pyrene	(<0.13 U)
Phenanthrene	0.27
Pyrene	0.51

CD-07	
Analyte	Sep-15
Benzo(a)anthracene	(<0.045 U)
Benzo(a)pyrene	0.24
Benzo(b)fluoranthene	0.26
Benzo(k)fluoranthene	(<0.053 U)
Chrysene	(<0.053 U)
Dibenz(a,h)anthracene	(<0.1 U)
Fluoranthene	(<0.056 U)
Indeno(1,2,3-c,d)pyrene	(<0.12 U)
Phenanthrene	(<0.089 U)
Pyrene	(<0.056 U)

CD-04	
Analyte	Sep-15
Benzo(a)anthracene	(<0.046 U)
Benzo(a)pyrene	(<0.054 U)
Benzo(b)fluoranthene	(<0.049 U)
Benzo(k)fluoranthene	(<0.054 U)
Chrysene	(<0.054 U)
Dibenz(a,h)anthracene	(<0.11 U)
Fluoranthene	(<0.057 U)
Indeno(1,2,3-c,d)pyrene	(<0.12 U)
Phenanthrene	(<0.089 U)
Pyrene	(<0.057 U)

CD-01	
Analyte	Sep-15
Benzo(a)anthracene	2.8
Benzo(a)pyrene	2.4
Benzo(b)fluoranthene	1.5
Benzo(k)fluoranthene	0.53
Chrysene	1.6
Dibenz(a,h)anthracene	3.3
Fluoranthene	3.2
Indeno(1,2,3-c,d)pyrene	7.8
Phenanthrene	5.6
Pyrene	5.6

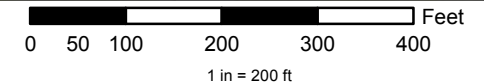
6 NYCRR Part 375 Soil Cleanup Objectives		
Analyte	Restricted-Residential	Commercial
Benzo(a)anthracene	1	5.6
Benzo(a)pyrene	1	1
Benzo(b)fluoranthene	1	5.6
Benzo(k)fluoranthene	3.9	56
Chrysene	3.9	5.6
Dibenz(a,h)anthracene	0.33	0.56
Fluoranthene	100	500
Indeno(1,2,3-c,d)pyrene	0.5	5.6
Phenanthrene	100	500
Pyrene	100	500



Legend

- █ Tax Parcel Restricted Residential Use
- █ Tax Parcel Commercial Use
- PDI Composite Concrete Sampling Location

Note: All concentrations reported in milligrams per kilogram (mg/kg).
 U = The concentration was not detected. The associated value is the method detection limit.
 Concentrations in Bold were detected above restricted residential SCOs.
 Concentrations in Red = were detected above commercial SCOs.



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PRE-DESIGN INVESTIGATION
 SEWALL'S ISLAND (SITE NO. E623021)
 WATERTOWN, NEW YORK

FIGURE 6a
 Pre-Design Investigation
 Concrete Sampling PAH Analytical Results

PROJECT MGR:
JCH

DESIGNED BY:
ALK

CREATED BY:
ALK

CHECKED BY:
JCH

SCALE:
AS SHOWN

DATE:
MAR 2016

PROJECT NO:
14907.30

FILE NO:
GIS\PROJECTS\PDI_LETTER





CD-05	
Analyte	Sep-15
Arsenic	42
Barium	100
Cadmium	(<0.064 U)
Chromium	6.6
Copper	5.1
Lead	22
Manganese	930
Mercury	0.072

CD-06	
Analyte	Sep-15
Arsenic	48
Barium	130
Cadmium	(<0.066 U)
Chromium	160
Copper	6.9
Lead	17
Manganese	230
Mercury	(<0.0042 U)

CD-03	
Analyte	Sep-15
Arsenic	39
Barium	200
Cadmium	(<0.072 U)
Chromium	8.5
Copper	3.3
Lead	16
Manganese	210
Mercury	(<0.0043 U)

CD-02	
Analyte	Sep-15
Arsenic	63
Barium	58
Cadmium	(<0.067 U)
Chromium	8.4
Copper	0.71
Lead	25
Manganese	310
Mercury	(<0.0043 U)

CD-07	
Analyte	Sep-15
Arsenic	54
Barium	46
Cadmium	6.2
Chromium	7.4
Copper	5
Lead	32
Manganese	510
Mercury	0.09

CD-04	
Analyte	Sep-15
Arsenic	54
Barium	41
Cadmium	(<0.068 U)
Chromium	7.1
Copper	3.1
Lead	23
Manganese	240
Mercury	(<0.004 U)

CD-01	
Analyte	Sep-15
Arsenic	53
Barium	45
Cadmium	(<0.07 U)
Chromium	8.9
Copper	2.5
Lead	22
Manganese	290
Mercury	(<0.004 U)

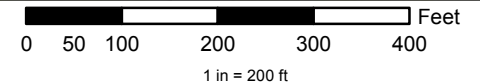
6 NYCRR Part 375 Soil Cleanup Objectives		
Analyte	Restricted-Residential	Commercial
Arsenic	16	16
Barium	400	400
Cadmium	4.3	9.3
Chromium	180	1,500
Copper	270	270
Lead	400	1,000
Manganese	2,000	10,000
Mercury	0.81	2.80



Legend

- ▭ Tax Parcel Restricted Residential Use
- ▭ Tax Parcel Commercial Use
- PDI Composite Concrete Sampling Location

Note: All concentrations reported in milligrams per kilogram (mg/kg).
 U = The concentration was not detected. The associated value is the method detection limit.
 Concentrations in **Bold** were detected above restricted residential SCOs.
 Concentrations in **Red** = were detected above commercial SCOs.



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**PRE-DESIGN INVESTIGATION
 SEWALL'S ISLAND (SITE NO. E623021)
 WATERTOWN, NEW YORK**

**FIGURE 6b
 Pre-Design Investigation
 Concrete Sampling Metals Analytical Results**

PROJECT MGR:
JCH

DESIGNED BY:
ALK

CREATED BY:
ALK

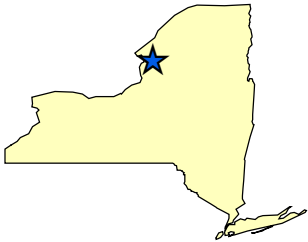
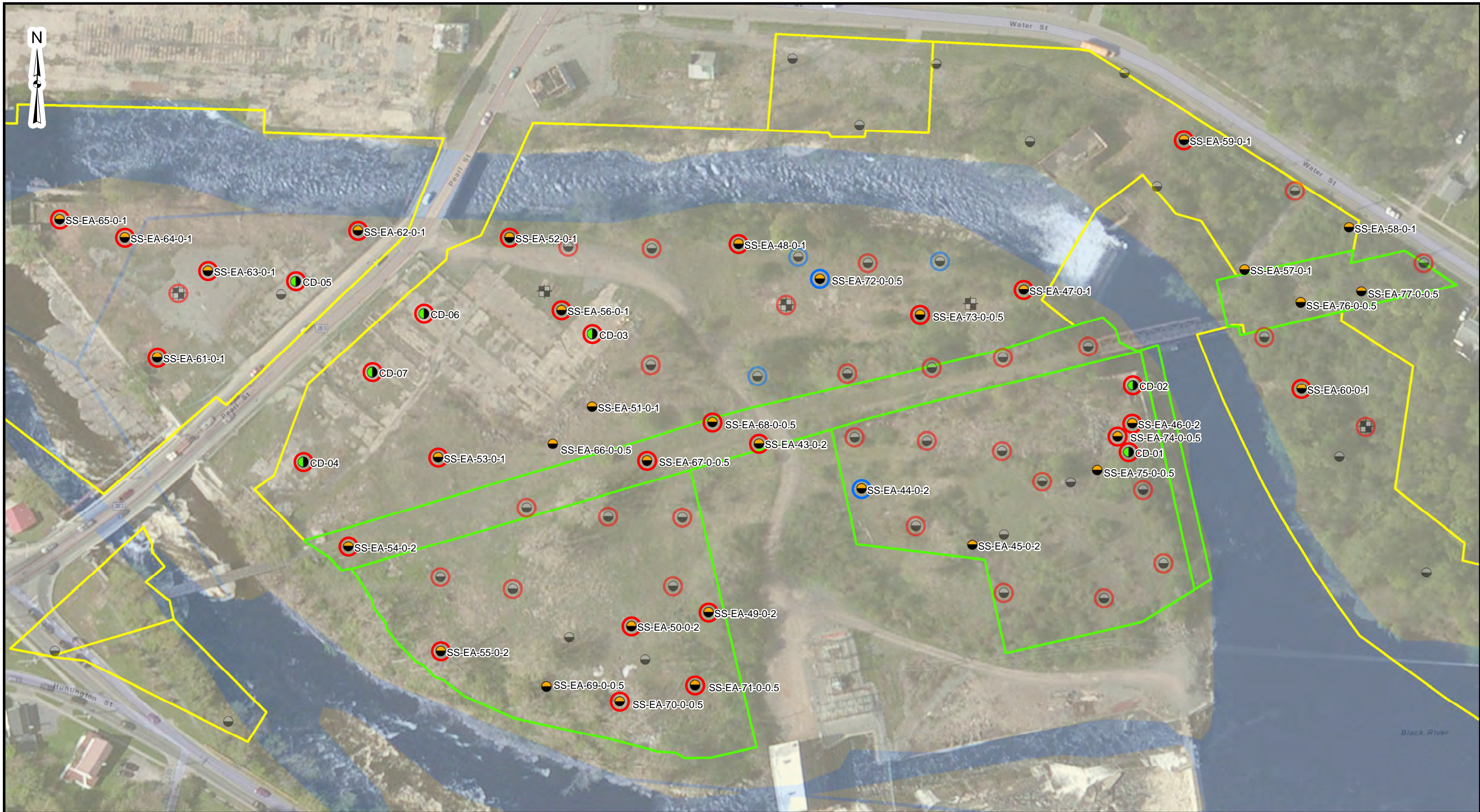
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DATE:
MAR 2016

PROJECT NO:
14907.30

FILE NO:
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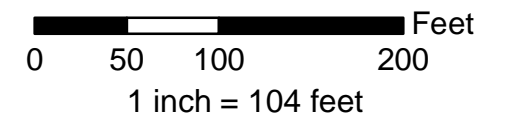
Legend

- ▭ Tax Parcel Restricted Residential Use
- ▭ Tax Parcel Commercial Use
- PDI Surface Soil Sampling Location
- PDI Composite Concrete Sampling Location
- ⊕ RI Test Pit Shallow Subsurface Soil Sampling Location
- RI Surface Soil and Shallow Subsurface Soil Sampling Location
- Exceeds Restricted Residential SCOs
- Exceeds Commercial SCOs

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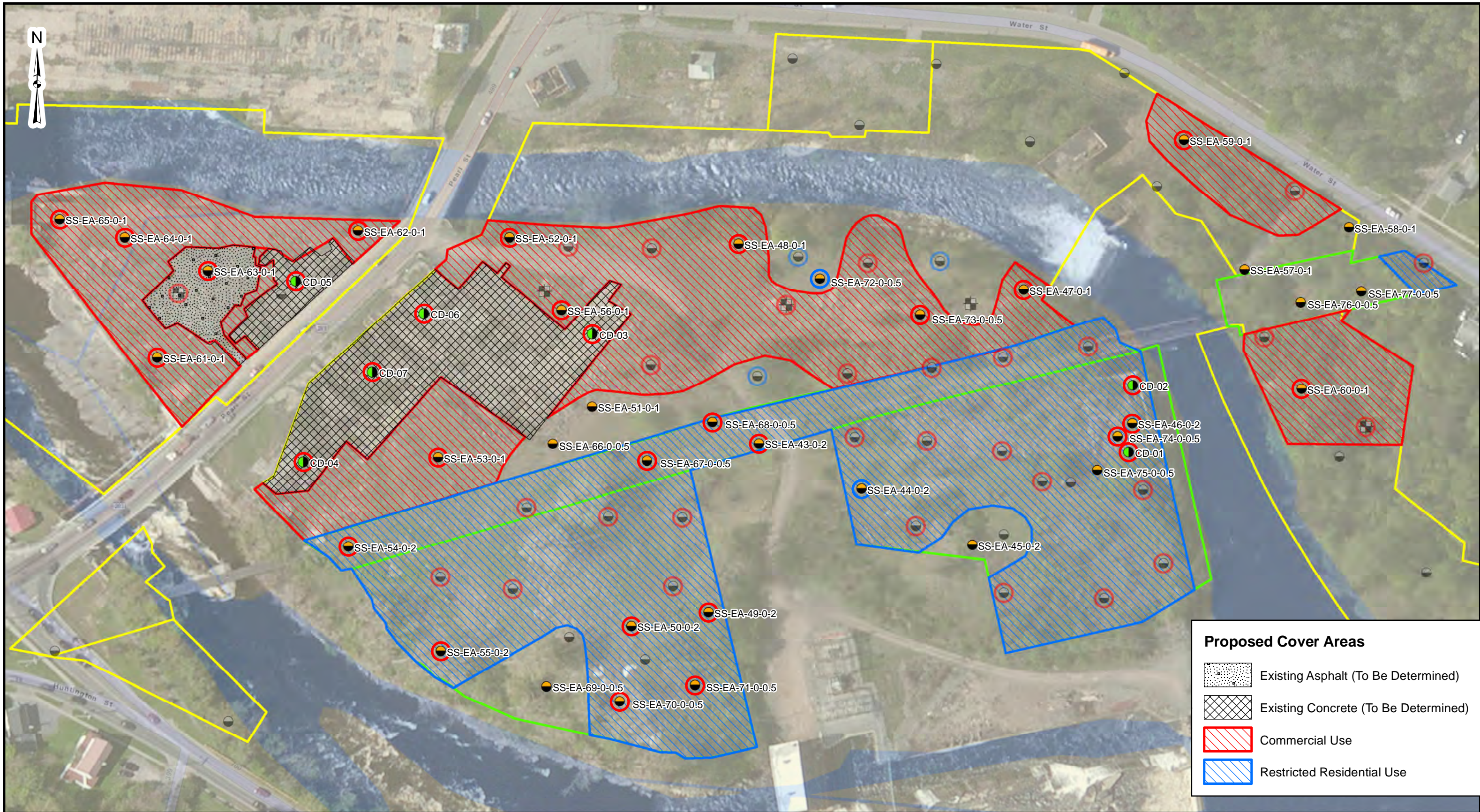
**PRE-DESIGN INVESTIGATION
SEWALL'S ISLAND (SITE NO. E623021)
WATERTOWN, NEW YORK**

**FIGURE 7
Surface Soil
Analytical Summary**

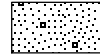





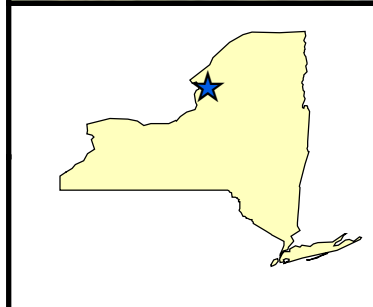
PROJECT MGR: JCH	DESIGNED BY: ALK	CREATED BY: ALK	CHECKED BY: JCH	SCALE: AS SHOWN	DATE: MAR 2016	PROJECT NO: 14907.30	FILE NO: GIS\PROJECTS\ PDI_LETTER
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Proposed Cover Areas

-  Existing Asphalt (To Be Determined)
-  Existing Concrete (To Be Determined)
-  Commercial Use
-  Restricted Residential Use



Legend

-  Tax Parcel Restricted Residential Use
-  Tax Parcel Commercial Use
-  PDI Surface Soil Sampling Location
-  PDI Composite Concrete Sampling Location
-  RI Test Pit Shallow Subsurface Soil Sampling Location
-  RI Surface Soil and Shallow Subsurface Soil Sampling Location
-  Exceeds Restricted Residential SCOs
-  Exceeds Commercial SCOs

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**PRE-DESIGN INVESTIGATION
SEWALL'S ISLAND (SITE NO. E623021)
WATERTOWN, NEW YORK**

PROJECT MGR: JCH	DESIGNED BY: ALK	CREATED BY: HAW	CHECKED BY: JCH	SCALE: AS SHOWN	DATE: MAR 2016	PROJECT NO: 14907.30	FILE NO: GIS/PROJECTS/ PDI_LETTER
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**FIGURE 8
Proposed Cover Areas**

0 52.5 105 210 Feet
1 inch = 104 feet






Table 1 Pre-Design Investigation Sample Summary

Sample ID	Sample Type	Northing	Easting	Elevation (ft amsl)	Depth (ft bgs)
CD-01	Concrete Composite	1450492.68	1001720.78	479.54	Surface
CD-02	Concrete Composite	1450529.00	1001754.76	480.57	Surface
CD-03	Concrete Composite	1450592.19	1001130.15	465.18	Surface
CD-04	Concrete Composite	1450446.11	1000798.28	463.53	Surface
CD-05	Concrete Composite	1450644.94	1000785.28	460.42	Surface
CD-06	Concrete Composite	1450647.52	1000902.52	464.60	Surface
CD-07	Concrete Composite	1450554.05	1000871.64	464.69	Surface
SS-EA-43	Surface Soil	1450473.56	1001317.69	475.21	0-2
SS-EA-44	Surface Soil	1450421.15	1001442.30	480.61	0-2
SS-EA-45	Surface Soil	1450349.54	1001570.60	484.00	0-2
SS-EA-46	Surface Soil	1450501.62	1001756.25	479.53	0-2
SS-EA-47	Surface Soil	1450660.93	1001621.03	465.14	0-1
SS-EA-48	Surface Soil	1450701.36	1001303.14	465.79	0-1
SS-EA-49	Surface Soil	1450291.34	1001231.20	476.57	0-2
SS-EA-50	Surface Soil	1450259.89	1001175.17	477.61	0-2
SS-EA-51	Surface Soil	1450513.02	1001136.53	471.94	0-1
SS-EA-52	Surface Soil	1450703.32	1001042.62	463.81	0-1
SS-EA-53	Surface Soil	1450453.49	1000947.00	473.73	0-1
SS-EA-54	Surface Soil	1450375.03	1000867.64	471.12	0-2
SS-EA-55	Surface Soil	1450242.44	1000966.38	472.61	0-2
SS-EA-56	Surface Soil	1450646.40	1001188.43	465.00	0-1
SS-EA-57	Surface Soil	1450669.06	1001891.45	472.04	0-1
SS-EA-58	Surface Soil	1450838.51	1001816.21	472.49	0-1
SS-EA-59	Surface Soil	1450725.25	1002019.65	478.93	0-1
SS-EA-60	Surface Soil	1450535.75	1001954.19	471.07	0-1
SS-EA-61	Surface Soil	1450577.21	1000629.02	457.63	0-1
SS-EA-62	Surface Soil	1450711.32	1000854.93	459.31	0-1
SS-EA-63	Surface Soil	1450669.57	1000649.14	455.24	0-1
SS-EA-64	Surface Soil	1450709.88	1000586.98	453.81	0-1
SS-EA-65	Surface Soil	1450732.48	1000516.22	453.38	0-1

NOTE:

ft = feet
amsl = above mean sea level
bgs = below ground surface

Northing and Easting coordinates are in New York State Plane Coordinate System, Central Zone, NAD 83 (CORS 96) Datum
Vertical values are referenced to the North American Vertical Datum of 1988 (NAVD 88)
All survey values are in feet.

Table 2 Surface Soil VOC Analytical Results

Parameter	Sample Name	SS-43-EA-0-2	SS-44-EA-0-2	SS-45-EA-0-2	SS-46-EA-0-2	SS-47-EA-0-1	SS-48-EA-0-1	SS-49-EA-0-2	SS-50-EA-0-2	SS-51-EA-0-1	6 NYCRR Part 375 Soil Cleanup Objectives		
	Lab ID	15I1054-01	15I1054-02	15I1054-03	15I1054-04	15I1054-05	15I1054-06	15I1054-07	15I1054-08	15I1054-09	Commercial	Restricted Residential	
	Sample Date	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015		
Acetone	mg/kg	< 0.027 U	< 0.027 U	< 0.028 U	< 0.026 U	< 0.025 U	< 0.024 U	< 0.025 U	< 0.028 U	< 0.023 U	500	100	
Parameter	Sample Name	SS-52-EA-0-1	SS-53-EA-0-1	SS-54-EA-0-2	SS-55-EA-0-2	SS-56-EA-0-1	SS-57-EA-0-1	SS-58-EA-0-1	SS-59-EA-0-1	SS-60-EA-0-1	6 NYCRR Part 375 Soil Cleanup Objectives		
	Lab ID	15I1054-10	15I1054-11	15I1054-12	15I1054-13	15I1054-14	15I1054-15	15I1054-16	15I1054-17	15I1054-18	Commercial	Restricted Residential	
	Sample Date	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015		
Acetone	mg/kg	< 0.023 U	0.47	< 0.025 U	< 0.025 U	< 0.027 U	< 0.029 U	< 0.023 U	< 0.027 U	< 0.029 U	500	100	
Parameter	Sample Name	SS-61-EA-0-1	SS-62-EA-0-1	DUP-01	SS-63-EA-0-1	SS-64-EA-0-1	SS-65-EA-0-1	DUP-02	SS-66-EA-0-0.5	SS-67-EA-0-0.5	6 NYCRR Part 375 Soil Cleanup Objectives		
	Lab ID	15I1054-19	15I1054-20	15I1054-26	15I1054-21	15I1054-22	15I1054-23	15I1054-27	16B0151-01	16B0151-02	Commercial	Restricted Residential	
	Sample Date	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	2/2/2016	2/2/2016			
Acetone	mg/kg	< 0.027 U	< 0.028 U	< 0.024 U	< 0.024 U	< 0.026 U	< 0.024 U	< 0.024 U	< 0.026 U	< 0.025 U	500	100	
Parameter	Sample Name	SS-68-EA-0-0.5	SS-69-EA-0-0.5	SS-70-EA-0-0.5	SS-71-EA-0-0.5	SS-72-EA-0-0.5	SS-73-EA-0-0.5	SS-74-EA-0-0.5	SS-75-EA-0-0.5	SS-76-EA-0-0.5	6 NYCRR Part 375 Soil Cleanup Objectives		
	Lab ID	16B0151-03	16B0151-04	16B0151-05	16B0151-06	16B0151-07	16B0151-08	16B0151-09	16B0151-10	16B0151-11	Commercial	Restricted Residential	
	Sample Date	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016			
Acetone	mg/kg	< 0.026 U	< 0.029 U	< 0.028 U	< 0.032 U	< 0.030 U	< 0.029 U	< 0.029 U	< 0.024 U	< 0.027 U	500	100	
Parameter	Sample Name	SS-77-EA-0-0.5	SS-DUP-EA									6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	16B0151-12	16B0151-13									Commercial	Restricted Residential
	Sample Date	2/2/2016	2/2/2016										
Acetone	mg/kg	< 0.025 U	< 0.030 U									500	100

NOTE: EPA = U.S. Environmental Protection Agency
ID = Identification
NYCRR = New York Codes, Rules, Regulation
mg/kg = Milligrams per kilogram
U = Analyte not detected at the listed method detection limit.
Analytical data results obtained by con-test Analytical Laboratory using EPA Method 8260.
Table includes only those constituents that were detected in one or more samples.
All concentrations reported in mg/kg equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
Shaded values indicate that the analyte was detected greater than the Commercial value.

Table 3 Surface Soil SVOC Analytical Results

Parameter	Sample Name	SS-43-EA-0-2	SS-44-EA-0-2	SS-45-EA-0-2	SS-46-EA-0-2	SS-47-EA-0-1	SS-48-EA-0-1	SS-49-EA-0-2	SS-50-EA-0-2	SS-51-EA-0-1	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	1511054-01	1511054-02	1511054-03	1511054-04	1511054-05	1511054-06	1511054-07	1511054-08	1511054-09	Commercial	Restricted Residential
	Sample Date	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	
1,4-dichlorobenzene	mg/kg	< 0.073 U	< 0.076 U	< 0.072 U	< 0.071 U	< 0.075 U	< 0.067 U	< 0.07 U	< 0.068 U	< 0.067 U	130	13
1-Methylnaphthalene	mg/kg	0.91	0.31	< 0.076 U	1	< 0.08 U	0.3	< 0.074 U	< 0.072 U	< 0.071 U	NS	NS
2-methylnaphthalene	mg/kg	1.1	0.42	< 0.069 U	1.5	< 0.072 U	0.4	< 0.067 U	< 0.066 U	< 0.065 U	NS	NS
Acenaphthene	mg/kg	0.26	< 0.063 U	< 0.06 U	8 D	< 0.062 U	< 0.056 U	< 0.058 U	< 0.057 U	< 0.056 U	500	100
Acenaphthylene	mg/kg	0.47	< 0.071 U	< 0.067 U	0.58	< 0.07 U	< 0.062 U	< 0.065 U	< 0.063 U	< 0.062 U	500	100
Anthracene	mg/kg	0.84	< 0.061 U	< 0.058 U	25 D	< 0.06 U	< 0.054 U	< 0.056 U	< 0.054 U	< 0.054 U	500	100
Benzo[a]anthracene	mg/kg	7.9 D	0.77	< 0.053 U	76 D	0.29	0.57	1.9	0.57	< 0.049 U	5.6	1
Benzo[a]pyrene	mg/kg	8.6 D	0.75	< 0.062 U	52 D	0.31	0.73	2.4	0.71	< 0.058 U	1	1
Benzo[b]fluoranthene	mg/kg	14 D	1.3	< 0.056 U	67 D	0.41	1.1	2.9	0.93	0.27	5.6	1
Benzo[g,h,i]perylene	mg/kg	5.2 D	0.61	< 0.088 U	23 D	< 0.092 U	0.49	1.5	0.42	< 0.082 U	500	100
Benzo[k]fluoranthene	mg/kg	4.5	0.42	< 0.062 U	29 D	< 0.065 U	0.37	0.94	0.3	< 0.058 U	56	3.9
Carbazole	mg/kg	0.5	< 0.055 U	< 0.052 U	21 D	< 0.054 U	< 0.048 U	< 0.05 U	< 0.049 U	< 0.048 U	NS	NS
Chrysene	mg/kg	9.6 D	0.95	< 0.062 U	72 D	0.32	0.86	3.1	0.85	< 0.058 U	56	3.9
Dibenz[a,h]anthracene	mg/kg	2.6	0.22	< 0.12 U	9.8 D	< 0.13 U	< 0.11 U	0.54	< 0.12 U	< 0.11 U	0.56	0.33
Dibenzofuran	mg/kg	0.44	< 0.073 U	< 0.069 U	4.6	< 0.072 U	< 0.065 U	< 0.067 U	< 0.066 U	< 0.065 U	350	59
Fluoranthene	mg/kg	11 D	1.1	< 0.066 U	190 D	0.46	0.64	1.9	0.58	0.19	500	100
Fluorene	mg/kg	0.2	< 0.068 U	< 0.065 U	8.5 D	< 0.067 U	< 0.06 U	< 0.063 U	< 0.061 U	< 0.06 U	500	100
Indeno[1,2,3-c,d]pyrene	mg/kg	5.9 D	0.7	< 0.14 U	28 D	< 0.15 U	0.5	1.4	0.42	< 0.13 U	5.6	0.5
Isophorone	mg/kg	< 0.079 U	< 0.082 U	< 0.077 U	< 0.077 U	< 0.081 U	< 0.072 U	< 0.075 U	< 0.073 U	< 0.072 U	NS	NS
Naphthalene	mg/kg	0.85	0.32	< 0.1 U	5.3 D	< 0.11 U	0.33	< 0.099 U	< 0.097 U	< 0.095 U	500	100
Phenanthrene	mg/kg	4.6	0.68	< 0.1 U	110 D	< 0.11 U	0.47	0.95	0.29	< 0.096 U	500	100
Pyrene	mg/kg	12 D	1	< 0.066 U	170 D	0.5	0.73	2.1	0.69	0.19	500	100

NOTE: EPA = U.S. Environmental Protection Agency
 ID = Identification
 NYCRR = New York Codes, Rules, Regulation
 mg/kg = Milligrams per kilogram
 D = Dilution
 U = Analyte not detected at the listed method detection limit.
 NS = No screening criteria
 Analytical data results obtained by con-test Analytical Laboratory using EPA Method 8270.
 Table includes only those constituents that were detected in one or more samples.
 All concentrations reported in mg/kg equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
 Shaded values indicate that the analyte was detected greater than the Commercial value.

Table 3 Surface Soil SVOC Analytical Results (Continued)

Parameter	Sample Name	SS-52-EA-0-1	SS-53-EA-0-1	SS-54-EA-0-2	SS-55-EA-0-2	SS-56-EA-0-1	SS-57-EA-0-1	SS-58-EA-0-1	SS-59-EA-0-1	SS-60-EA-0-1	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	1511054-10	1511054-11	1511054-12	1511054-13	1511054-14	1511054-15	1511054-16	1511054-17	1511054-18	Commercial	Restricted Residential
	Sample Date	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	
1,4-dichlorobenzene	mg/kg	< 0.068 U	< 0.069 U	< 0.068 U	< 0.07 U	< 0.069 U	< 0.076 U	< 0.072 U	< 0.071 U	< 0.078 U	130	13
1-Methylnaphthalene	mg/kg	0.2	< 0.073 U	0.37	0.2	0.81	< 0.081 U	< 0.077 U	< 0.076 U	< 0.083 U	NS	NS
2-methylnaphthalene	mg/kg	0.27	< 0.067 U	0.52	0.26	1.1	< 0.073 U	< 0.07 U	< 0.069 U	< 0.076 U	NS	NS
Acenaphthene	mg/kg	< 0.057 U	< 0.057 U	0.97	< 0.058 U	< 0.058 U	< 0.064 U	< 0.06 U	< 0.059 U	< 0.065 U	500	100
Acenaphthylene	mg/kg	< 0.063 U	< 0.064 U	< 0.064 U	< 0.065 U	< 0.065 U	< 0.071 U	< 0.068 U	0.2	< 0.073 U	500	100
Anthracene	mg/kg	< 0.054 U	< 0.055 U	0.87	0.27	< 0.056 U	< 0.061 U	< 0.058 U	< 0.057 U	< 0.063 U	500	100
Benzo[a]anthracene	mg/kg	2	0.57	5.5 D	2.7	0.98	< 0.056 U	0.53	1.2	0.44	5.6	1
Benzo[a]pyrene	mg/kg	3	0.66	8.3 D	4	1.2	< 0.066 U	0.69	1.5	0.46	1	1
Benzo[b]fluoranthene	mg/kg	4.2	1.1	9 D	4.2 D	1.9	< 0.06 U	0.92	1.8	0.63	5.6	1
Benzo[g,h,i]perylene	mg/kg	1.8	0.45	4.8 D	2.4	0.87	< 0.093 U	0.24	1	0.32	500	100
Benzo[k]fluoranthene	mg/kg	1.5	0.33	3.3 D	1.8	0.65	< 0.066 U	0.34	0.7	< 0.068 U	56	3.9
Carbazole	mg/kg	< 0.049 U	< 0.05 U	0.66	< 0.05 U	< 0.05 U	< 0.055 U	< 0.052 U	< 0.051 U	< 0.056 U	NS	NS
Chrysene	mg/kg	2.7	0.75	6.6 D	4	1.5	< 0.066 U	0.66	1.2	0.52	56	3.9
Dibenz[a,h]anthracene	mg/kg	0.51	< 0.12 U	1.3	0.78	0.29	< 0.13 U	< 0.12 U	0.3	< 0.13 U	0.56	0.33
Dibenzofuran	mg/kg	< 0.065 U	< 0.067 U	< 0.066 U	< 0.067 U	< 0.067 U	< 0.073 U	< 0.07 U	< 0.069 U	< 0.076 U	350	59
Fluoranthene	mg/kg	2.4	0.78	5.8 D	2.4	1.9	< 0.07 U	0.92	1.8	1	500	100
Fluorene	mg/kg	< 0.061 U	< 0.062 U	0.33	< 0.063 U	< 0.062 U	< 0.068 U	< 0.065 U	< 0.064 U	< 0.071 U	500	100
Indeno[1,2,3-c,d]pyrene	mg/kg	1.9	0.44	5 D	2.3	0.92	< 0.15 U	0.29	1.2	0.35	5.6	0.5
Isophorone	mg/kg	< 0.073 U	< 0.074 U	< 0.074 U	< 0.075 U	< 0.075 U	< 0.082 U	< 0.078 U	< 0.077 U	< 0.085 U	NS	NS
Naphthalene	mg/kg	0.26	< 0.098 U	0.43	0.22	0.7	< 0.11 U	< 0.1 U	< 0.1 U	< 0.11 U	500	100
Phenanthrene	mg/kg	0.86	0.44	3.7	1.2	1.3	< 0.11 U	0.53	0.49	0.7	500	100
Pyrene	mg/kg	2.8	0.81	6.7 D	2.5	1.9	< 0.07 U	0.92	1.7	0.87	500	100

NOTE: EPA = U.S. Environmental Protection Agency
ID = Identification
NYCRR = New York Codes, Rules, Regulation
mg/kg = Milligrams per kilogram
D = Dilution
U = Analyte not detected at the listed method detection limit.
NS = No screening criteria
Analytical data results obtained by con-test Analytical Laboratory using EPA Method 8270.
Table includes only those constituents that were detected in one or more samples.
All concentrations reported in mg/kg equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
Shaded values indicate that the analyte was detected greater than the Commercial value.

Table 3 Surface Soil SVOC Analytical Results (Continued)

Parameter	Sample Name	SS-61-EA-0-1	SS-62-EA-0-1	DUP-01	SS-63-EA-0-1	SS-64-EA-0-1	SS-65-EA-0-1	DUP-02	SS-66-EA-0-0.5	SS-67-EA-0-0.5	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	1511054-19	1511054-20	1511054-26	1511054-21	1511054-22	1511054-23	1511054-27	16B0151-01	16B0151-02	Commercial	Restricted Residential
	Sample Date	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	2/2/2016	2/2/2016	
1,4-dichlorobenzene	mg/kg	< 0.074 U	< 0.073 U	< 0.067 U	< 0.27 U	< 0.071 U	< 0.067 U	< 0.069 U	< 0.073 U	< 0.072 U	130	13
1-Methylnaphthalene	mg/kg	< 0.079 U	< 0.078 U	0.21	< 0.29 U	< 0.076 U	< 0.072 U	< 0.073 U	< 0.078 U	0.97	NS	NS
2-methylnaphthalene	mg/kg	< 0.071 U	< 0.071 U	0.29	< 0.26 U	< 0.069 U	< 0.065 U	< 0.066 U	< 0.07 U	1.3	NS	NS
Acenaphthene	mg/kg	< 0.062 U	< 0.061 U	< 0.056 U	< 0.23 U	< 0.059 U	< 0.056 U	< 0.057 U	< 0.061 U	< 0.06 U	500	100
Acenaphthylene	mg/kg	< 0.069 U	< 0.068 U	< 0.062 U	< 0.25 U	< 0.066 U	< 0.063 U	< 0.064 U	< 0.068 U	2.4	500	100
Anthracene	mg/kg	0.35	0.88	< 0.054 U	< 0.22 U	< 0.057 U	0.21	0.26	< 0.058 U	0.88	500	100
Benzo[a]anthracene	mg/kg	0.97	3.6	3.5	< 0.2 U	0.75	0.91	0.9	0.6	5 D	5.6	1
Benzo[a]pyrene	mg/kg	0.92	3.2	4.2 D	< 0.24 U	0.72	0.83	0.84	0.65	5.8 D	1	1
Benzo[b]fluoranthene	mg/kg	1	4	6 D	< 0.21 U	0.89	1	1	0.92	10 D	5.6	1
Benzo[g,h,i]perylene	mg/kg	0.57	1.8	4.6 D	< 0.33 U	0.46	0.5	0.55	0.53	4.4	500	100
Benzo[k]fluoranthene	mg/kg	0.34	1.4	2.4	< 0.24 U	0.32	0.36	0.36	0.33	4.4	56	3.9
Carbazole	mg/kg	< 0.053 U	0.59	< 0.048 U	< 0.2 U	< 0.051 U	< 0.049 U	< 0.05 U	< 0.053 U	0.46	NS	NS
Chrysene	mg/kg	0.91	3.3	3.5 D	< 0.24 U	0.74	0.84	0.86	0.76	6.1 D	56	3.9
Dibenz[a,h]anthracene	mg/kg	< 0.13 U	0.6	1.6	< 0.46 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	1.2	0.56	0.33
Dibenzofuran	mg/kg	< 0.071 U	< 0.071 U	< 0.065 U	< 0.26 U	< 0.069 U	< 0.065 U	< 0.066 U	< 0.07 U	0.42	350	59
Fluoranthene	mg/kg	2.2	7.6 D	3.8	< 0.25 U	1.5	1.9	2	1	7.6 D	500	100
Fluorene	mg/kg	< 0.067 U	0.26	< 0.06 U	< 0.25 U	< 0.064 U	< 0.061 U	< 0.062 U	< 0.066 U	< 0.065 U	500	100
Indeno[1,2,3-c,d]pyrene	mg/kg	0.6	2	4.4 D	< 0.54 U	0.5	0.53	0.58	0.49	4.3 D	5.6	0.5
Isophorone	mg/kg	< 0.08 U	< 0.079 U	< 0.072 U	< 0.29 U	< 0.077 U	< 0.073 U	< 0.074 U	< 0.079 U	< 0.078 U	NS	NS
Naphthalene	mg/kg	< 0.11 U	< 0.1 U	0.33	< 0.39 U	< 0.1 U	< 0.096 U	< 0.098 U	< 0.1 U	1.1	500	100
Phenanthrene	mg/kg	1.6	4.9 D	1.1	< 0.39 U	0.85	0.95	1.1	0.48	1.9	500	100
Pyrene	mg/kg	1.9	7.8 D	4.1	< 0.25 U	1.5	1.8	1.9	1	8.4 D	500	100

NOTE: EPA = U.S. Environmental Protection Agency
 ID = Identification
 NYCRR = New York Codes, Rules, Regulation
 mg/kg = Milligrams per kilogram
 D = Dilution
 U = Analyte not detected at the listed method detection limit.
 NS = No screening criteria
 Analytical data results obtained by con-test Analytical Laboratory using EPA Method 8270.
 Table includes only those constituents that were detected in one or more samples.
 All concentrations reported in mg/kg equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
 Shaded values indicate that the analyte was detected greater than the Commercial value.

Table 3 Surface Soil SVOC Analytical Results (Continued)

Parameter	Sample Name	SS-68-EA-0-0.5	SS-69-EA-0-0.5	SS-70-EA-0-0.5	SS-71-EA-0-0.5	SS-72-EA-0-0.5	SS-73-EA-0-0.5	SS-74-EA-0-0.5	SS-75-EA-0-0.5	SS-76-EA-0-0.5	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	16B0151-03	16B0151-04	16B0151-05	16B0151-06	16B0151-07	16B0151-08	16B0151-09	16B0151-10	16B0151-11	Commercial	Restricted Residential
	Sample Date	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016		
1,4-dichlorobenzene	mg/kg	< 0.072 U	< 0.077 U	< 0.073 U	< 0.086 U	< 0.083 U	< 0.35 U	< 0.78 U	< 0.068 U	< 0.074 U	130	13
1-Methylnaphthalene	mg/kg	0.43	< 0.082 U	< 0.078 U	< 0.092 U	< 0.089 U	< 0.38 U	< 0.83 U	< 0.073 U	< 0.079 U	NS	NS
2-methylnaphthalene	mg/kg	0.53	< 0.075 U	< 0.071 U	< 0.083 U	< 0.081 U	< 0.34 U	< 0.76 U	< 0.066 U	0.26	NS	NS
Acenaphthene	mg/kg	< 0.06 U	< 0.065 U	< 0.061 U	< 0.072 U	< 0.07 U	< 0.3 U	3.4 D	< 0.057 U	< 0.062 U	500	100
Acenaphthylene	mg/kg	0.23	< 0.072 U	< 0.068 U	< 0.08 U	< 0.078 U	< 0.33 U	< 0.73 U	< 0.064 U	< 0.069 U	500	100
Anthracene	mg/kg	< 0.058 U	< 0.062 U	< 0.059 U	0.26	< 0.067 U	< 0.28 U	11 D	< 0.055 U	< 0.06 U	500	100
Benzo[a]anthracene	mg/kg	0.99	0.49	0.61	1.5	0.36	< 0.26 U	30 D	0.41	0.27	5.6	1
Benzo[a]pyrene	mg/kg	0.98	0.45	0.7	1.7	0.43	< 0.31 U	20 D	0.42	0.24	1	1
Benzo[b]fluoranthene	mg/kg	1.7	0.45	1.1	2.7	0.73	< 0.28 U	28 D	0.6	0.48	5.6	1
Benzo[g,h,i]perylene	mg/kg	0.5	0.28	0.54	1.2	0.35	< 0.44 U	8.2 D	0.29	< 0.091 U	500	100
Benzo[k]fluoranthene	mg/kg	0.67	< 0.067 U	0.35	1	0.26	< 0.31 U	11 D	0.21	< 0.064 U	56	3.9
Carbazole	mg/kg	< 0.052 U	< 0.056 U	< 0.053 U	< 0.062 U	< 0.06 U	< 0.26 U	9.6 D	< 0.049 U	< 0.053 U	NS	NS
Chrysene	mg/kg	1.1	0.59	1.1	1.7	0.56	< 0.31 U	28 D	0.6	0.47	56	3.9
Dibenz[a,h]anthracene	mg/kg	< 0.12 U	< 0.13 U	< 0.12 U	0.36	< 0.14 U	< 0.6 U	2.7 D	< 0.12 U	< 0.13 U	0.56	0.33
Dibenzofuran	mg/kg	< 0.069 U	< 0.075 U	< 0.071 U	< 0.083 U	< 0.081 U	< 0.34 U	< 0.76 U	< 0.066 U	< 0.072 U	350	59
Fluoranthene	mg/kg	1.6	0.23	0.63	2.5	1.1	< 0.33 U	82 D	0.47	0.48	500	100
Fluorene	mg/kg	< 0.065 U	< 0.07 U	< 0.066 U	< 0.077 U	< 0.075 U	< 0.32 U	3.9 D	< 0.062 U	< 0.067 U	500	100
Indeno[1,2,3-c,d]pyrene	mg/kg	0.6	< 0.15 U	0.47	1.3	0.34	< 0.71 U	10 D	0.26	0.21	5.6	0.5
Isophorone	mg/kg	< 0.078 U	< 0.084 U	< 0.079 U	< 0.093 U	< 0.09 U	< 0.38 U	< 0.85 U	< 0.074 U	< 0.08 U	NS	NS
Naphthalene	mg/kg	0.4	< 0.11 U	< 0.1 U	< 0.12 U	< 0.12 U	< 0.51 U	4.3 D	< 0.098 U	0.44	500	100
Phenanthrene	mg/kg	0.77	< 0.11 U	0.46	1.4	0.79	< 0.51 U	50 D	0.19	0.42	500	100
Pyrene	mg/kg	1.6	0.28	0.79	2.5	1	< 0.33 U	66 D	0.51	0.55	500	100

NOTE: EPA = U.S. Environmental Protection Agency
 ID = Identification
 NYCRR = New York Codes, Rules, Regulation
 mg/kg = Milligrams per kilogram
 D = Dilution
 U = Analyte not detected at the listed method detection limit.
 NS = No screening criteria
 Analytical data results obtained by con-test Analytical Laboratory using EPA Method 8270.
 Table includes only those constituents that were detected in one or more samples.
 All concentrations reported in mg/kg equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
 Shaded values indicate that the analyte was detected greater than the Commercial value.

Table 3 Surface Soil SVOC Analytical Results (Continued)

Parameter	Sample Name	SS-77-EA-0-0.5	SS-DUP-EA	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	16B0151-12	16B0151-13		
	Sample Date	2/2/2016	2/2/2016	Commercial	Restricted Residential
1,4-dichlorobenzene	mg/kg	< 0.07 U	< 0.32 U	130	13
1-Methylnaphthalene	mg/kg	< 0.075 U	< 0.34 U	NS	NS
2-methylnaphthalene	mg/kg	< 0.068 U	< 0.31 U	NS	NS
Acenaphthene	mg/kg	< 0.059 U	< 0.27 U	500	100
Acenaphthylene	mg/kg	< 0.066 U	< 0.3 U	500	100
Anthracene	mg/kg	< 0.056 U	< 0.26 U	500	100
Benzo[a]anthracene	mg/kg	0.3	< 0.24 U	5.6	1
Benzo[a]pyrene	mg/kg	0.31	< 0.28 U	1	1
Benzo[b]fluoranthene	mg/kg	0.63	1.2 D	5.6	1
Benzo[g,h,i]perylene	mg/kg	0.2	< 0.39 U	500	100
Benzo[k]fluoranthene	mg/kg	0.24	< 0.28 U	56	3.9
Carbazole	mg/kg	< 0.051 U	< 0.23 U	NS	NS
Chrysene	mg/kg	0.45	0.9 D	56	3.9
Dibenz[a,h]anthracene	mg/kg	< 0.12 U	< 0.55 U	0.56	0.33
Dibenzofuran	mg/kg	< 0.068 U	< 0.31 U	350	59
Fluoranthene	mg/kg	0.83	1.5 D	500	100
Fluorene	mg/kg	< 0.063 U	< 0.29 U	500	100
Indeno[1,2,3-c,d]pyrene	mg/kg	0.25	< 0.64 U	5.6	0.5
Isophorone	mg/kg	< 0.076 U	< 0.35 U	NS	NS
Naphthalene	mg/kg	< 0.1 U	< 0.46 U	500	100
Phenanthrene	mg/kg	0.49	1.1 D	500	100
Pyrene	mg/kg	0.64	1.5 D	500	100

NOTE: EPA = U.S. Environmental Protection Agency
ID = Identification
NYCRR = New York Codes, Rules, Regulation
mg/kg = Milligrams per kilogram
D = Dilution
U = Analyte not detected at the listed method detection limit.
NS = No screening criteria
Analytical data results obtained by con-test Analytical Laboratory using EPA Method 8270.
Table includes only those constituents that were detected in one or more samples.
All concentrations reported in mg/kg equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
Shaded values indicate that the analyte was detected greater than the Commercial value.

Table 4 Surface Soil Metals and Mercury Analytical Results

Parameter	Sample Name	SS-43-EA-0-2	SS-44-EA-0-2	SS-45-EA-0-2	SS-46-EA-0-2	SS-47-EA-0-1	SS-48-EA-0-1	SS-49-EA-0-2	SS-50-EA-0-2	SS-51-EA-0-1	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	15I1054-01	15I1054-02	15I1054-03	15I1054-04	15I1054-05	15I1054-06	15I1054-07	15I1054-08	15I1054-09	Commercial	Restricted Residential
	Sample Date	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015		
Aluminum	mg/kg	7,900 B	5,500 B	12,000 B	6,800 B	4,700 B	2,400 B	3,800 B	2,000 B	2,400 B	NS	NS
Antimony	mg/kg	< 2.4 U	< 2.3 U	< 2.2 U	< 2.3 U	< 2.5 U	< 2 U	< 2.1 U	< 2.2 U	< 2.2 U	NS	NS
Arsenic	mg/kg	19	7.5	3.3	35	31	39	6.3	50	< 0.79 U	16	16
Barium	mg/kg	94	67	110	470	58	43	49	41	26	400	400
Beryllium	mg/kg	0.52	0.39	0.72	0.38	0.32	< 0.048 U	< 0.053 U	< 0.051 U	< 0.051 U	590	72
Cadmium	mg/kg	1.5	0.64	< 0.082 U	0.75	0.37	0.5	0.37	< 0.071 U	0.59	9.3	4.3
Calcium	mg/kg	25,000	22,000	11,000	170,000 D	160,000 D	180,000 D	17,000	260,000 D	17,000	NS	NS
Chromium	mg/kg	41	9.8	18	8.2	7.7	14	30	10	7.1	NS	NS
Cobalt	mg/kg	5.7	3.5	8.6	< 0.11 U	3.5	< 0.089 U	5.5	2.7	< 0.095 U	NS	NS
Copper	mg/kg	380	110	14	8	17	39	130	45	10	270	270
Iron	mg/kg	30,000	14,000	20,000	8,000	12,000	15,000	22,000	12,000	13,000	NS	NS
Lead	mg/kg	330	190	8.7	60	76	76	69	46	26	1,000	400
Magnesium	mg/kg	1,800	1,100	6,300	8,100	7,900	2,700	1,100	6,100	1,100	NS	NS
Manganese	mg/kg	420	270	430	220	410	390	510	270	110	10,000	2,000
Nickel	mg/kg	20	8.6	16	6.2	7.2	31	20	12	3.4	310	310
Potassium	mg/kg	650	510	2100	1500	1100	470	650	480	250	NS	NS
Selenium	mg/kg	< 3.7 U	< 3.6 U	< 3.7 U	< 3.5 U	< 3.4 U	< 3 U	< 3.3 U	< 3.2 U	< 3.2 U	1,500	180
Silver	mg/kg	1.7	1.2	1.3	< 0.072 U	< 0.069 U	< 0.061 U	1.4	< 0.065 U	1	1500	180
Sodium	mg/kg	< 15 U	< 15 U	220	260	150	140	150	110	< 13 U	NS	NS
Vanadium	mg/kg	36	14	29	18	9.9	8.9	11	6.4	6.9	NS	NS
Zinc	mg/kg	280	160	52	320	98	66	91	39	270	10,000	10,000
Mercury	mg/kg	0.25	0.34	< 0.0051 U	0.049	0.6 D	0.093	0.12	0.1	0.053	2.8	0.81

NOTE: EPA = U.S. Environmental Protection Agency
ID = Identification
NYCRR = New York Codes, Rules, Regulation
mg/kg = Milligrams per kilogram
B = Blank Contamination
D = Dilution
U = Analyte not detected at the listed method detection limit.
NS = No screening criteria
Analytical data results obtained by con-test Analytical Laboratory using EPA Method SW6010C and SW7471B.
Table includes only those constituents that were detected in one or more samples.
All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
Shaded values indicate that the analyte was detected greater than the Commercial value.

Table 4 Surface Soil Metals and Mercury Analytical Results (Continued)

Parameter	Sample Name	SS-52-EA-0-1	SS-53-EA-0-1	SS-54-EA-0-2	SS-55-EA-0-2	SS-56-EA-0-1	SS-57-EA-0-1	SS-58-EA-0-1	SS-59-EA-0-1	SS-60-EA-0-1	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	1511054-10	1511054-11	1511054-12	1511054-13	1511054-14	1511054-15	1511054-16	1511054-17	1511054-18	Commercial	Restricted Residential
	Sample Date	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	
Aluminum	mg/kg	4,300 B	5,500 B	4,500 B	4,400 B	6,500 B	14,000 B	5,500 B	9,300 B	3,800 B	NS	NS
Antimony	mg/kg	< 2.1 U	4.2	2.9	< 2.3 U	< 2.1 U	3.2	< 2.3 U	< 2.1 U	< 2.4 U	NS	NS
Arsenic	mg/kg	23	6.4	10	4.5	7.9	4.3	6	20	39	16	16
Barium	mg/kg	40	110	99	56	68	120	53	140	33	400	400
Beryllium	mg/kg	0.29	0.36	0.33	< 0.053 U	0.48	0.95	0.37	0.6	0.4	590	72
Cadmium	mg/kg	0.6	1.2	2.2	1.1	0.44	< 0.08 U	0.66	0.56	1.1	9.3	4.3
Calcium	mg/kg	89,000 D	6,800	26,000	2,900	21,000	6,000	26,000	97,000 D	170,000 D	NS	NS
Chromium	mg/kg	23	35	43	18	9.1	17	9.4	15	6	NS	NS
Cobalt	mg/kg	3.9	7.9	7.2	5	4.2	8.2	3.6	5.5	< 0.11 U	NS	NS
Copper	mg/kg	69	340	170	79	110	21	110	34	17	270	270
Iron	mg/kg	19,000	60,000 D	67,000 D	24,000	20,000	21,000	16,000	14,000	6,800	NS	NS
Lead	mg/kg	110	290	280	120	120	25	130	100	73	1,000	400
Magnesium	mg/kg	3,700	1,300	2,200	630	1,300	3,800	2,100	3,600	2,800	NS	NS
Manganese	mg/kg	350	890	750	310	220	380	340	360	270	10,000	2,000
Nickel	mg/kg	32	40	69	29	10	14	7.6	10	5.2	310	310
Potassium	mg/kg	650	570	430	400	430	1,400	< 45 U	1,300	570	NS	NS
Selenium	mg/kg	< 3.3 U	< 3.4 U	< 3.2 U	3.9 J	< 3.2 U	4 J	< 3.6 U	< 3.4 U	< 3.6 U	1,500	180
Silver	mg/kg	< 0.068 U	3	2	2.2	1.5	1.4	1.2	< 0.07 U	< 0.072 U	1500	180
Sodium	mg/kg	130	< 14 U	< 13 U	< 14 U	210	150	< 150 U	460	< 15 U	NS	NS
Vanadium	mg/kg	14	23	22	12	16	30	18	20	9.6	NS	NS
Zinc	mg/kg	200	240	330	220	99	88	150	120	170	10,000	10,000
Mercury	mg/kg	0.14	0.35	0.2	0.42	0.13	0.049	0.21	0.097	0.093	2.8	0.81

NOTE: EPA = U.S. Environmental Protection Agency
ID = Identification
NYCRR = New York Codes, Rules, Regulation
mg/kg = Milligrams per kilogram
B = Blank Contamination
D = Dilution
U = Analyte not detected at the listed method detection limit.
NS = No screening criteria
Analytical data results obtained by con-test Analytical Laboratory using EPA Method SW6010C and SW7471B.
Table includes only those constituents that were detected in one or more samples.
All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
Shaded values indicate that the analyte was detected greater than the Commercial value.

Table 4 Surface Soil Metals and Mercury Analytical Results (Continued)

Parameter	Sample Name	SS-61-EA-0-1	SS-62-EA-0-1	DUP-01	SS-63-EA-0-1	SS-64-EA-0-1	SS-65-EA-0-1	DUP-02	SS-66-EA-0-0.5	SS-67-EA-0-0.5	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	1511054-19	1511054-20	1511054-26	1511054-21	1511054-22	1511054-23	1511054-27	16B0151-01	16B0151-02	Commercial	Restricted Residential
	Sample Date	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	9/22/2015	2/2/2016	2/2/2016	
Aluminum	mg/kg	3,800 B	7,300 B	6,000	3,400	9,100	3,400	3,000	8,500 B	5,100 B	NS	NS
Antimony	mg/kg	< 2.4 U	< 2.4 U	< 2.1 U	< 2.2 U	< 2.3 U	< 2.2 U	< 2.3 U	< 1.1 U	4.2	NS	NS
Arsenic	mg/kg	23	14	20	29	17	18	5.2	< 0.54 U	17	16	16
Barium	mg/kg	230	73	46	73	83	22	21	78	74	400	400
Beryllium	mg/kg	0.33	0.5	0.3	0.34	0.52	< 0.053 U	< 0.055 U	< 0.23 U	< 0.22 U	590	72
Cadmium	mg/kg	0.53	< 0.074 U	0.64	0.48	< 0.079 U	< 0.074 U	< 0.077 U	0.46	1.3	9.3	4.3
Calcium	mg/kg	100,000 D	69,000 D	77,000 D	29,000	76,000 D	85,000 D	31,000	71,000 D	21,000	NS	NS
Chromium	mg/kg	8	11	23	42	12	4.1	3.6	18	28	NS	NS
Cobalt	mg/kg	< 0.11 U	5.3	4.2	14	5.6	< 0.099 U	< 0.1 U	< 0.9 U	5.7	NS	NS
Copper	mg/kg	210	24	69	350	11	5.1	2.3	36	120	270	270
Iron	mg/kg	12,000	13,000	28,000 D	210,000 D	17,000	9,500	9,800	14,000	26,000	NS	NS
Lead	mg/kg	8,700 D	190	110	230	190	81	48	87	140	1,000	400
Magnesium	mg/kg	5,200	6,100	3,500	1,200	5,700	3,000	1,500	3,200	1,800	NS	NS
Manganese	mg/kg	320	290	480	1,700	340	170	110	420	400	10,000	2,000
Nickel	mg/kg	4.4	9.4	29	39	9.5	3.6	2.1	12	27	310	310
Potassium	mg/kg	700	1,500	860	300	2,100	830	530	860	890	NS	NS
Selenium	mg/kg	< 3.6 U	< 3.3 U	< 3.2 U	8.8	< 3.6 U	< 3.3 U	< 3.5 U	< 0.89 U	< 0.84 U	1,500	180
Silver	mg/kg	0.71	0.6	1.4	< 0.068 U	0.94	< 0.068 U	0.78	< 0.46 U	< 0.43 U	1500	180
Sodium	mg/kg	180	360	160	< 14 U	230	< 14 U	< 14 U	< 41 U	< 38 U	NS	NS
Vanadium	mg/kg	16	21	17	63	22	10	10	19	17	NS	NS
Zinc	mg/kg	740	73	210	140	69	24	23	130	200	10,000	10,000
Mercury	mg/kg	0.42	0.33	0.27	0.74 D	0.076	0.13	0.11	0.38	0.21	2.8	0.81

NOTE: EPA = U.S. Environmental Protection Agency
ID = Identification
NYCRR = New York Codes, Rules, Regulation
mg/kg = Milligrams per kilogram
B = Blank Contamination
D = Dilution
U = Analyte not detected at the listed method detection limit.
NS = No screening criteria
Analytical data results obtained by con-test Analytical Laboratory using EPA Method SW6010C and SW7471B.
Table includes only those constituents that were detected in one or more samples.
All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
Shaded values indicate that the analyte was detected greater than the Commercial value.

Table 4 Surface Soil Metals and Mercury Analytical Results (Continued)

Parameter	Sample Name	SS-68-EA-0-0.3	SS-69-EA-0-0.3	SS-70-EA-0-0.3	SS-71-EA-0-0.3	SS-72-EA-0-0.3	SS-73-EA-0-0.3	SS-74-EA-0-0.3	SS-75-EA-0-0.3	SS-76-EA-0-0.3	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	16B0151-03	16B0151-04	16B0151-05	16B0151-06	16B0151-07	16B0151-08	16B0151-09	16B0151-10	16B0151-11	Commercial	Restricted Residential
	Sample Date	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016	2/2/2016		
Aluminum	mg/kg	3,600 B	2,000 B	6,600 B	5,900 B	8,200 B	5,500 B	5,500 B	3,100 B	5,100 B	NS	NS
Antimony	mg/kg	6.7	23	6.5	6	5.9	< 1.2 U	8.4	3.7	< 1.1 U	NS	NS
Arsenic	mg/kg	84	13	7.4	9.9	7.1	< 0.61 U	13	< 0.5 U	3.2	16	16
Barium	mg/kg	93	29	460	86	75	99	140	37	97	400	400
Beryllium	mg/kg	0.39	< 0.24 U	< 0.23 U	< 0.28 U	0.33	< 0.27 U	0.36	< 0.22 U	< 0.24 U	590	72
Cadmium	mg/kg	3	< 0.14 U	0.63	1.1	0.7	0.39	1.5	< 0.12 U	< 0.14 U	9.3	4.3
Calcium	mg/kg	2,900	53,000	34,000	38,000	65,000 D	19,000	97,000 D	110,000 D	14,000	NS	NS
Chromium	mg/kg	24	240	59	35	18	14	12	6.1	7.5	NS	NS
Cobalt	mg/kg	14	14	9.5	7.8	7.7	< 1 U	6.6	< 0.83 U	11	NS	NS
Copper	mg/kg	790	200	95	420	65	13	95	12	84	270	270
Iron	mg/kg	32,000 D	170,000 D	51,000 D	40,000 D	43,000 D	7,300	17,000	6,600	19,000	NS	NS
Lead	mg/kg	430	67	99	310	320	1,000	790	47	76	1,000	400
Magnesium	mg/kg	500	2,600	1,900	3,000	4,200	3,800	5,400	5,600	1,800	NS	NS
Manganese	mg/kg	550	1,200	1,100	650	470	160	230	230	250	10,000	2,000
Nickel	mg/kg	32	160	63	26	25	6.1	12	6.1	18	310	310
Potassium	mg/kg	440	530	890	1400	880	620	2100	1200	870	NS	NS
Selenium	mg/kg	< 0.87 U	< 0.94 U	2.9 J	4.3 J	< 0.97 U	< 1 U	< 0.9 U	< 0.83 U	< 0.91 U	1,500	180
Silver	mg/kg	< 0.45 U	< 0.48 U	< 0.46 U	< 0.56 U	< 0.5 U	< 0.52 U	< 0.46 U	< 0.43 U	< 0.47 U	1500	180
Sodium	mg/kg	160	< 43 U	< 40 U	150	260	650	270	< 38 U	< 41 U	NS	NS
Vanadium	mg/kg	20	39	22	29	25	18	21	7.6	16	NS	NS
Zinc	mg/kg	300	72	170	390	260	94	470	62	51	10,000	10,000
Mercury	mg/kg	0.15	0.24	0.81 D	0.84 D	2.3 D	0.47	3 D	0.024	0.083	2.8	0.81

NOTE: EPA = U.S. Environmental Protection Agency
 ID = Identification
 NYCRR = New York Codes, Rules, Regulation
 mg/kg = Milligrams per kilogram
 B = Blank Contamination
 D = Dilution
 U = Analyte not detected at the listed method detection limit.
 NS = No screening criteria
 Analytical data results obtained by con-test Analytical Laboratory using EPA Method SW6010C and SW7471B.
 Table includes only those constituents that were detected in one or more samples.
 All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
 Shaded values indicate that the analyte was detected greater than the Commercial value.

Table 4 Surface Soil Metals and Mercury Analytical Results (Continued)

Parameter	Sample Name	SS-77-EA-0-0.5	SS-DUP-EA	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	16B0151-12	16B0151-13	Commercial	Restricted Residential
	Sample Date	2/2/2016	2/2/2016		
Aluminum	mg/kg	5,600 B	7,800 B	NS	NS
Arsenic	mg/kg	< 1 U	< 1.1 U	NS	NS
Antimony	mg/kg	< 0.5 U	< 0.56 U	16	16
Barium	mg/kg	45	65	400	400
Beryllium	mg/kg	< 0.22 U	< 0.24 U	590	72
Cadmium	mg/kg	< 0.13 U	0.59	9.3	4.3
Calcium	mg/kg	78,000 D	73,000 D	NS	NS
Chromium	mg/kg	7.8	17	NS	NS
Cobalt	mg/kg	4.4	5.1	NS	NS
Copper	mg/kg	48	48	270	270
Iron	mg/kg	15,000 D	26,000 D	NS	NS
Lead	mg/kg	47	270	1,000	400
Magnesium	mg/kg	3,000	4,800	NS	NS
Manganese	mg/kg	270	450	10,000	2,000
Nickel	mg/kg	7.9	20	310	310
Potassium	mg/kg	1100	980	NS	NS
Selenium	mg/kg	< 0.83 U	< 0.92 U	1,500	180
Silver	mg/kg	< 0.43 U	< 0.48 U	1500	180
Sodium	mg/kg	< 38 U	230	NS	NS
Vanadium	mg/kg	13	21	NS	NS
Zinc	mg/kg	46	220	10,000	10,000
Mercury	mg/kg	0.12	2.2 D	2.8	0.81

NOTE: EPA = U.S. Environmental Protection Agency
 ID = Identification
 NYCRR = New York Codes, Rules, Regulation
 mg/kg = Milligrams per kilogram
 B = Blank Contamination
 D = Dilution
 U = Analyte not detected at the listed method detection limit.
 NS = No screening criteria
 Analytical data results obtained by con-test Analytical Laboratory using EPA Method SW6010C and SW7471B.
 Table includes only those constituents that were detected in one or more samples.
 All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
 Shaded values indicate that the analyte was detected greater than the Commercial value.

Table 5 Concrete VOC Analytical Results

Parameter	Sample Name	CD-01-EA	CD-02-EA	CD-03-EA	CD-04-EA	CD-05-EA	CD-06-EA	CD-07-EA	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	15I1054-28	15I1054-29	15I1054-30	15I1054-31	15I1054-32	15I1054-33	15I1054-34	Commercial	Restricted Residential
	Sample Date	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	Commercial	Restricted Residential
Toluene	mg/kg	0.0028	< 0.00083 U	< 0.00075 U	< 0.00081 U	< 0.00075 U	< 0.00076 U	0.0023	500	100
<p>NOTE: EPA = U.S. Environmental Protection Agency ID = Identification NYCRR = New York Codes, Rules, Regulation mg/kg = Milligrams per kilogram U = Analyte not detected at the listed method detection limit. NS = No screening criteria</p> <p>Analytical data results obtained by con-test Analytical Laboratory using EPA Method 8260. Table includes only those constituents that were detected in one or more samples. All concentrations reported in mg/kg equivalent to parts per million (ppm). Bold values indicate that the analyte was detected greater than the Restricted Residential value. Shaded values indicate that the analyte was detected greater than the Commercial value.</p>										

Table 6 Concrete SVOC Analytical Results

Parameter	Sample Name	CD-01-EA	CD-02-EA	CD-03-EA	CD-04-EA	CD-05-EA	CD-06-EA	CD-07-EA	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	15I1054-28	15I1054-29	15I1054-30	15I1054-31	15I1054-32	15I1054-33	15I1054-34	Commercial	Restricted Residential
	Sample Date	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015		
Acenaphthene	mg/kg	0.29	< 0.052 U	< 0.053 U	< 0.052 U	< 0.052 U	< 0.053 U	< 0.051 U	500	100
Anthracene	mg/kg	0.47	< 0.05 U	< 0.051 U	< 0.05 U	< 0.05 U	< 0.051 U	< 0.049 U	500	100
Benzo[a]anthracene	mg/kg	2.8	0.2	< 0.047 U	< 0.046 U	< 0.046 U	< 0.046 U	< 0.045 U	5.6	1
Benzo[a]pyrene	mg/kg	2.4	< 0.054 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.055 U	0.24	1	1
Benzo[b]fluoranthene	mg/kg	3.3 D	0.23	< 0.05 U	< 0.049 U	< 0.049 U	< 0.049 U	0.26	5.6	1
Benzo[g,h,i]perylene	mg/kg	1.4	< 0.077 U	< 0.079 U	< 0.076 U	< 0.076 U	< 0.077 U	< 0.076 U	500	100
Benzo[k]fluoranthene	mg/kg	1.5	< 0.054 U	< 0.056 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	56	3.9
Carbazole	mg/kg	1.6	< 0.045 U	< 0.046 U	< 0.045 U	< 0.045 U	< 0.045 U	< 0.044 U	NS	NS
Chrysene	mg/kg	3.2 D	0.23	< 0.056 U	< 0.054 U	< 0.054 U	< 0.055 U	< 0.053 U	56	3.9
Dibenz[a,h]anthracene	mg/kg	0.53	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.1 U	0.56	0.33
Dibenzofuran	mg/kg	0.39	< 0.06 U	< 0.062 U	< 0.06 U	< 0.06 U	< 0.061 U	< 0.059 U	350	59
Fluoranthene	mg/kg	7.8 D	0.5	< 0.059 U	< 0.057 U	< 0.057 U	< 0.058 U	< 0.056 U	500	100
Fluorene	mg/kg	0.28	< 0.056 U	< 0.058 U	< 0.056 U	< 0.056 U	< 0.057 U	< 0.055 U	500	100
Indeno[1,2,3-c,d]pyrene	mg/kg	1.6	< 0.13 U	< 0.13 U	< 0.12 U	< 0.12 U	< 0.13 U	< 0.12 U	5.6	0.5
Naphthalene	mg/kg	0.57	< 0.089 U	< 0.091 U	< 0.088 U	< 0.088 U	< 0.09 U	< 0.088 U	500	100
Phenanthrene	mg/kg	5.6 D	0.23	< 0.092 U	< 0.089 U	< 0.089 U	< 0.091 U	< 0.089 U	500	100
Pyrene	mg/kg	5.6 D	0.49	< 0.059 U	< 0.057 U	< 0.057 U	< 0.058 U	< 0.056 U	500	100

NOTE: EPA = U.S. Environmental Protection Agency
 ID = Identification
 NYCRR = New York Codes, Rules, Regulation
 mg/kg = Milligrams per kilogram
 D = Dilution
 U = Analyte not detected at the listed method detection limit.
 NS = No screening criteria

Analytical data results obtained by con-test Analytical Laboratory using EPA Method 8270.
 Table includes only those constituents that were detected in one or more samples.
 All concentrations reported in mg/kg equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
 Shaded values indicate that the analyte was detected greater than the Commercial value.

Table 7 Concrete Metals and Mercury Analytical Results

Parameter	Sample Name	CD-01-EA	CD-02-EA	CD-03-EA	CD-04-EA	CD-05-EA	CD-06-EA	CD-07-EA	6 NYCRR Part 375 Soil Cleanup Objectives	
	Lab ID	15I1054-28	15I1054-29	15I1054-30	15I1054-31	15I1054-32	15I1054-33	15I1054-34	Commercial	Restricted Residential
	Sample Date	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015		
Aluminum	mg/kg	7,900	7,100	8,500	4,900	10,000	12,000	6,200	NS	NS
Arsenic	mg/kg	53	63	39	54	42	48	54	16	16
Barium	mg/kg	45	58	200	41	100	130	46	400	400
Beryllium	mg/kg	0.33	0.28	0.31	0.26	0.86	0.52	0.31	590	72
Cadmium	mg/kg	< 0.07 U	< 0.067 U	< 0.072 U	< 0.068 U	< 0.064 U	< 0.066 U	6.2	9.3	4.3
Chromium	mg/kg	8.9	8.4	8.5	7.1	6.6	160	7.4	NS	NS
Cobalt	mg/kg	2.6	< 0.09 U	< 0.096 U	< 0.091 U	< 0.085 U	7	< 0.091 U	NS	NS
Copper	mg/kg	2.5	0.71	3.3	3.1	5.1	6.9	5	270	270
Iron	mg/kg	81,00	10,000	6,400	8,500	8,800	12,000	6,800	NS	NS
Lead	mg/kg	22	25	16	23	22	17	32	1000	400
Magnesium	mg/kg	9,300	7,400	7,800	6,900	7,500	13,000	6,000	NS	NS
Manganese	mg/kg	290	310	210	240	930	230	510	10000	2000
Nickel	mg/kg	5.2	5	4.7	5.2	4.7	28	7.1	310	310
Potassium	mg/kg	1,500	1,400	2,100	1,000	1,300	3,700	2,000	NS	NS
Sodium	mg/kg	250	300	520	290	380	980	470	NS	NS
Thallium	mg/kg	< 1.4 U	< 1.4 U	< 1.5 U	< 1.4 U	< 1.3 U	< 1.4 U	< 1.4 U	NS	NS
Vanadium	mg/kg	11	11	8.5	12	9.2	24	9.7	NS	NS
Zinc	mg/kg	18	20	16	18	19	35	370	10000	10000
Mercury	mg/kg	< 0.004 U	< 0.0043 U	< 0.0043 U	< 0.004 U	0.072	< 0.0042 U	0.09	2.8	0.81

NOTE: EPA = U.S. Environmental Protection Agency
ID = Identification
NYCRR = New York Codes, Rules, Regulation
mg/kg = Milligrams per kilogram
D = Dilution
U = Analyte not detected at the listed method detection limit.
NS = No screening criteria

Analytical data results obtained by con-test Analytical Laboratory using EPA Method SW6010C and SW7471B.
Table includes only those constituents that were detected in one or more samples.
All concentrations reported in mg/kg equivalent to parts per million (ppm).
Bold values indicate that the analyte was detected greater than the Restricted Residential value.
Shaded values indicate that the analyte was detected greater than the Commercial value.

Attachment A

Previous Investigations Analytical Summary Tables

Table 1 - Previous Investigation Sub-Surface Soil Results (GYMO, 1998)

Detected Parameters	Unrestricted Use ³	Residential Use ⁴	Restricted-Residential Use ⁴	Commercial Use ⁴	Industrial Use ⁴	Date Sampled																													
						B-1 Composite	B-2 (23)	B-3 Composite	B-4 Composite	B-5 (13.5)	B-5 Composite	B-6 Composite	B-7 Composite	B-9 Composite	B-10 Composite	B-11 Composite	B-12 Composite	B-13 (3-8)	B-14 (0-16)	B-14 (16-20)	B-15 Composite	B-16 Composite	B-17 Composite	B-18 (17-18)	B-18 (0-17)	B-19 (16-22)	B-19 Composite	B-20 (22)	B-20 (0-21)	B-21 (12-16)	B-22 (19-19.8)	B-23 (15-15.6)	B-24 (12-13)	B-26 Composite	
Volatiles Organics - NYSDEC STARS 8021¹																																			
1,2,4-Trimethylbenzene	3,600	47,000	52,000	190,000	380,000	ND	ND		ND	ND											ND	<500		ND		ND		ND	320	24,000	12,000	ND			
1,3,5-Trimethylbenzene	8,400	47,000	52,000	190,000	380,000	ND	ND		ND	ND											ND	<500		ND		ND		ND	ND	5,500	ND	ND			
4-Isopropyltoluene	N/A	N/A	N/A	N/A	N/A	ND	ND		ND	ND											ND	<500		ND		ND		4,400	1,300	2,400	1,400	ND			
Benzene	60	2,900	4,800	44,000	89,000	ND	ND		ND	ND											ND	<500		ND		ND		<500	<200	<200	<200	<200			
Isopropylbenzene	N/A	N/A	N/A	N/A	N/A	ND	ND		ND	ND											ND	750		ND		ND		2,300	2,600	1,200	640	ND			
Naphthalene	12,000	100,000	100,000	500,000	1,000,000	ND	ND		260	ND											ND	<500		ND		ND		27,000	ND	23,000	1,000	ND			
n-Butylbenzene	12,000	100,000	100,000	500,000	1,000,000	ND	ND		ND	ND											ND	3,400		ND		ND		5,600	6,800	3,800	1,900	ND			
n-Propylbenzene	3,900	100,000	100,000	500,000	1,000,000	ND	ND		ND	ND											ND	1,900		ND		ND		4,800	5,600	2,900	1,300	ND			
sec-Butylbenzene	11,000	100,000	100,000	500,000	1,000,000	ND	ND		ND	ND											ND	2,200		ND		ND		5,000	5,600	2,900	1,200	ND			
Xylene (Total)	260	100,000	100,000	500,000	1,000,000	ND	ND		ND	ND											ND	<500		ND		ND		2,600	ND	1,500	450	ND			
Semi-Volatile Organics - NYSDEC STARS 8270 Base/Neutrals¹																																			
Acenaphthene	20,000	100,000	100,000	500,000	1,000,000	ND	ND		ND	ND											<2,000		ND		ND		<4,000								
Anthracene	100,000	100,000	100,000	500,000	1,000,000	ND	ND		ND	ND												<2,000		ND		ND		<4,000							
Benzo(a)anthracene	1,000	1,000	1,000	5,600	11,000	ND	ND		1,400	ND												<2,000		ND		ND		<4,000							
Benzo(a)pyrene	1,000	1,000	1,000	1,000	1,100	ND	ND		1,600	ND												<2,000		ND		ND		<4,000							
Benzo(b)fluoranthene	1,000	1,000	1,000	1,000	1,100	ND	ND		1,400	ND												<2,000		ND		ND		<4,000							
Benzo(g,h,i)perylene	100,000	100,000	100,000	500,000	1,000,000	ND	ND		1,100	ND												<2,000		ND		ND		<4,000							
Benzo(k)fluoranthene	800	1,000	3,900	56,000	110,000	ND	ND		<1,000	ND												<2,000		ND		ND		<4,000							
Chrysene	1,000	1,000	3,900	56,000	110,000	ND	ND		1,200	ND												<2,000		ND		ND		<4,000							
Dibenzo(a,h)anthracene	330	330	330	560	1,100	ND	ND		<1,000	ND												<2,000		ND		ND		<4,000							
Fluoranthene	100,000	100,000	100,000	500,000	1,000,000	ND	ND		1,600	ND												<2,000		ND		ND		<4,000							
Fluorene	30,000	100,000	100,000	500,000	1,000,000	ND	ND		<1,000	ND												<2,000		ND		ND		6,200							
Indeno(1,2,3-cd)pyrene	500	500	500	5,600	11,000	ND	ND		1,000	ND												<2,000		ND		ND		<4,000							
Phenanthrene	100,000	100,000	100,000	500,000	1,000,000	ND	ND		<1,000	ND												<2,000		240		ND		8,800							
Pyrene	100,000	100,000	100,000	500,000	1,000,000	ND	ND		1,200	ND												<2,000		ND		ND		<4,000							
Total Petroleum Hydrocarbons- NYSDOH 310.13²																																			
Fuel oil #2	N/A	N/A	N/A	N/A	N/A				ND	150																									
Gasoline	N/A	N/A	N/A	N/A	N/A				Not Present	Not Present																									
Kerosene	N/A	N/A	N/A	N/A	N/A				ND	ND																									
Lubricating oil	N/A	N/A	N/A	N/A	N/A				Present	Not Present																									
Metals²																																			
Antimony	N/A	N/A	N/A	N/A	N/A		ND	ND	ND		ND	ND	ND	ND	ND							ND	ND		ND		ND		ND	ND	ND	ND	ND		
Arsenic	13	16	16	16	16		36	9.8	15		6.3	47	30	9.1	2.6																				
Beryllium	7.2	14	72	590	2,700		ND	ND	ND		ND	ND	ND	ND	ND																				
Cadmium	2.5	2.5	4.3	9.3	60		3.9	2.1	ND		ND	ND	ND	ND	ND																				
Chromium	1	36	110	400	6,800		36	19	47		11	33	32	7.9	4.5																				
Copper	50	270	270	270	10,000		100	440	540		57	68	69	17	7.8																				
Cyanide, Total	27	27	27	27	10,000		0.18	0.6	0.15		0.18	0.16																							
Lead	63	400	400	1,000	3,900		140	190	160		49	48	140	250	67																				
Mercury	0.18	0.81	0.81	2.8	5.7		0.18	0.52	0.31		0.16	0.28	0.51	ND	ND																				
Nickel	30	140	310	310	10,000		30	14	35		8.7	13	21	6.4	4.5																				
Selenium	3.9	36	180	1,500	6,800		4.5	2.8	2.3		1.6	2.9	1.8	1.9	5.1																				
Silver	2	36	180	1,500	6,800		ND	ND	ND		ND	ND	ND	0.8	1.5																				
Thallium	N/A	N/A	N/A	N/A	N/A		ND	ND	ND		ND	ND	ND	ND	ND																				
Zinc	109	2,200	10,000	10,000	10,000		360	940	410		50	48	140	90	ND																				
PCBs - EPA Method 8082²																																			
PCBs	0.1	1	1	1	25		<0.2																												

1 - results presented in micrograms per kilogram (ug/Kg).

2 - results presented in milligrams per kilogram (mg/Kg).

3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives

4 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

ND- not detected above reporting limit

	Value Exceeds Unrestricted SCOs
	Value Exceeds Residential Use SCOs
	Value Exceeds Restricted-Residential SCOs
	Value Exceeds Commercial Use SCOs
	Value Exceeds Industrial Use SCOs

Table 2 Surface Soil Results

Detected Parameters	Unrestricted Use ³	Residential Use ⁴	Restricted-Residential Use ⁴	Commercial Use ⁴	Industrial Use ⁴	SI-SS-26	SI-SS-27	SI-SS-28	SI-SS-29	SI-SS-30	SI-SS-31	SI-SS-32	SI-SS-33	SI-SS-34	SI-SS-35	SI-SS-36	SI-SS-37	SI-SS-38	SI-SS-39	SI-SS-40	SI-SS-41	SI-SS-42
						Date Sampled:	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08
Volatile Organics - EPA Method 8260¹																						
m,p-Xylene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	50	51,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	700	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	260	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organics - EPA Method 8270¹																						
2-Methylnaphthalene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	81 J	ND	ND	ND	ND	ND	ND	310 J	ND	ND	ND	ND	ND	ND
Acenaphthene	20,000	100,000	100,000	500,000	1,000,000	230 J	ND	ND	ND	ND	130 J	ND	ND	ND	150 J	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100,000	100,000	100,000	500,000	1,000,000	ND	ND	ND	110 J	ND	220 J	520	150 J	ND	ND	2500	290 J	ND	140 J	110 J	250 J	ND
Anthracene	100,000	100,000	100,000	500,000	1,000,000	580 J	110 J	ND	180 J	ND	210 J	590	ND	ND	ND	1700	160 J	ND	ND	ND	170 J	ND
Benzo(a)anthracene	1,000	1,000	1,000	5,600	11,000	4300	530	550	2000	170 J	610	1500	450 J	180 J	170 J	2900	370	160 J	260 J	300 J	480	160 J
Benzo(a)pyrene	1,000	1,000	1,000	1,000	1,100	6200	540	620	2300	190 J	670	1500	510 J	170 J	180 J	2900	520	190 J	290 J	330 J	630	210 J
Benzo(b)fluoranthene	1,000	1,000	1,000	1,000	11,000	9000	720	860	3000	270 J	990	2100	840	220 J	300 J	4700	770	270 J	420	500	900	330 J
Benzo(g,h,i)perylene	100,000	100,000	100,000	500,000	1,000,000	7300	430	540	2100	160 J	530	1100	430 J	130 J	180 J	2300	560	150 J	280 J	270 J	540	190 J
Benzo(k)fluoranthene	800	1,000	3,900	56,000	110,000	4500	270 J	360 J	1000	120 J	350 J	880	330 J	ND	ND	2200	230 J	ND	220 J	170 J	390	150 J
Bis(2-ethylhexyl)phthalate	N/A	N/A	N/A	N/A	N/A	ND	530	3700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	N/A	N/A	N/A	N/A	N/A	250 J	ND	ND	ND	ND	ND	230 J	ND	ND	ND	420 J	ND	ND	ND	ND	ND	ND
Chrysene	1,000	1,000	3,900	56,000	110,000	4900	830	900	3400	190 J	710	1500	630	210 J	230 J	3500	430	200 J	280 J	370 J	560	210 J
Di-n-butylphthalate	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	330	330	330	560	1,100	2700	200 J	230 J	1000	ND	180 J	320 J	ND	ND	ND	910	130 J	ND	ND	ND	180 J	ND
Dibenzofuran	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230 J	ND	ND	ND	ND	ND	ND
Fluoranthene	100,000	100,000	100,000	500,000	1,000,000	4500	800	890	1500	270 J	1100	2500	970	300 J	320 J	4800	530	290 J	390	480	750	240 J
Fluorene	30,000	100,000	100,000	500,000	1,000,000	200 J	ND	ND	ND	ND	130 J	ND	ND	ND	190 J	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	500	500	500	5,600	11,000	7000	350 J	440	1600	140 J	480	1000	380 J	ND	150 J	2300	440	130 J	240 J	240 J	490	160 J
Naphthalene	12,000	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	330 J	ND	ND	ND	ND	ND	ND
Phenanthrene	100,000	100,000	100,000	500,000	1,000,000	2300	640	390 J	840	ND	480	1200	490 J	150 J	200 J	1400	200 J	130 J	120 J	170 J	250 J	140 J
Phenol	330	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	100,000	100,000	100,000	500,000	1,000,000	3800	600	730	1500	220 J	890	2000	760	290 J	270 J	3900	470	260 J	350	430	670	210 J
TAL Metals²																						
Aluminum	N/A	N/A	N/A	N/A	N/A	3920	4570	4770	3410	8920	3010	9160	9090	6960	9340	5820	2350	8860	3100	3210	2330	3260
Antimony	N/A	N/A	N/A	N/A	N/A	0.41 BN	1.6 N	0.31 BN	0.59 BN	ND	0.13 BN	0.25 BN	1.9 N	0.13 BN	0.17 BN	0.74 BN	ND	0.10 BN	ND	0.090 BN	0.41 BN	1.7 N
Arsenic	13	16	16	16	16	3.8	3.3	4.6	5.7	2.3	11.5	6.8	19.9	3.0	8.5	12.8	1.5	4.5	1.9	2.4	3.4	4.1
Barium	350	350	400	400	10,000	33.4	61.1	97.7	90.2	62.0	29.4	73.8	88.0	43.2	60.9	51.9	21.1	90.3	62.9	22.9 E	21.8 E	33.6 E
Beryllium	7.2	14	72	590	2,700	0.15 B	0.25 B	0.24	0.16 B	0.51	0.18 B	0.78	0.89	0.47	0.55	0.37	0.11 B	0.42	0.15 B	0.27	0.18	0.22
Cadmium	2.5	2.5	4.3	9.3	60	0.79	0.54	0.39	0.71	0.28	0.32	1.1	2.2	0.45	0.75	0.58	0.13 B	0.30	0.16 B	0.21	0.36	0.52
Calcium	N/A	N/A	N/A	N/A	N/A	3340	124000	150000	65300	44400	126000	14100	56300	63100	22500	124000	196000	90000	194000	137000 *	139000 *	21900 *
Chromium	1	36	110	400	6,800	21.1	15.6	20.3	50.8	9.9	5.4	12.8	14.0	8.2	8.4	10.9	5.6	11.4	4.3	4.7 E	5.4 E	16.8 E
Cobalt	N/A	N/A	N/A	N/A	N/A	4.9 E	3.9 E	3.9 E	5.5 E	3.9 E	2.3 E	5.3 E	4.5 E	4.4 E	4.3 E	3.6 E	1.3 BE	4.5 E	1.7 BE	2.0 E	1.5 BE	2.3 E
Copper	50	270	270	270	10,000	96.5 N	58.2 N	30.2 N	81.5 N	19.3 N	17.8 N	41.6 N	79.7 N	27.6 N	29.9 N	76.5 N	11.0 N	40.9 N	14.1 N	23.3	43.8	811
Iron	N/A	N/A	N/A	N/A	N/A	50000	25600	25400	43400	15300	6560	23700	28100	13000	47000	24700	5950	12900	6010	6830	15700	21700
Lead	63	400	400	1,000	3,900	77.3 E	71.1 E	37.5 E	114 E	38.9 E	78.6 E	52.7 E	193 E	32.8 E	49.7 E	75.4 E	15.1 E	72.1 E	18.9 E	39.5 E	45.2 E	106 E
Magnesium	N/A	N/A	N/A	N/A	N/A	401	4640	4800	4610	3000	5820	2430	1230	4460	6650	3380	3820	4350	6360	4120 E	2720 E	2060 E
Manganese	1600	2,000	2,000	10,000	10,000	696	381	488	530	554	224	504	526	416	291	276	218	275	224	244 *E	237 *E	502 *E
Mercury	0.18	0.81	0.81	2.8	5.7	0.082	0.20	0.11	0.14	0.088	0.18	0.20	0.35	0.16	0.14	0.29	0.062	0.14	0.018 B	0.085	0.12	0.067
Nickel	30	140	310	310	10,000	41.7	20.0	18.0	40.8	7.5	5.6	13.7	15.3	9.2	8.1	11.4	4.3	10.5	4.6	4.9 E	4.6 E	16.8 E
Potassium	N/A	N/A	N/A	N/A	N/A	385	565	730	411	895	635	1270	687	845	952	1140	513	1730	616	506	396	334
Selenium	3.9	36	180	1,500	6,800	ND	3.5	3.8	1.4	1.5 B	3.8	1.1 B	4.9	2.6	2.1	3.8	5.1	3.3	5.5	3.1	2.6	0.48 B
Silver	2	36	180	1,500	6,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24 B
Sodium	N/A	N/A	N/A	N/A	N/A	40.4 B	102	155	64.0	84.4	93.0	62.0	67.6 B	102	124	138	117	162	90.8	100 *	76.7 *	184 *
Thallium	N/A	N/A	N/A	N/A	N/A	ND	ND	0.55 B	ND	0.77 B	ND	ND	ND	ND	ND	ND	ND	ND	0.36 B	0.49 B	0.49 B	ND
Vanadium	N/A	N/A	N/A	N/A	N/A	8.8	7.7	7.6	17.5	16.5	7.4	19.8	21.8	11.3	20.0	13.0	4.7	19.1	5.6	5.8 E	7.7 E	9.4 E
Zinc	109	2,200	10,000	10,000	10,000	93.4 E	92.4 E	69.2 E	71.2 E	64.6 E	67.2 E	312 E	543 E	116 E	156 E	106 E	27.2 E	130 E	31.9 E	47.8 E	57.9 E	326 E
PCBs - EPA Method 8081²																						
Aroclor-1242	0.1	1	1	1	25	ND	ND	0.064	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	0.1	1	1	1	25	0.24	0.14	0.062	0.07	ND	ND	ND	ND	0.055	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1 - results presented in micrograms per kilogram (ug/Kg).
 2 - results presented in milligrams per kilogram (mg/Kg).
 3 - 6 NYCRR Part 375-

Table 3-1 Sub-Surface Soil Results - Test Pit VOCs & SVOCs

Detected Parameters	Unrestricted Use ²	Residential Use ³	Restricted-Residential Use ³	Commercial Use ³	Industrial Use ³	SI-TP-01	SI-TP-02	SI-TP-02A (1')	SI-TP-05 (2')	SI-TP-06 (5')	SI-TP-08 (5.5')	SI-TP-09 (3')	SI-TP-11 (2.5')	SI-TP-12 (2.5')	SI-TP-13 (18')	SI-TP-14 (6')	SI-TP-19 (9.5')	SI-TP-20 (12')	SI-TP-21 (17.5')	SI-TP-22 (18')	SI-TP-23 (5.5')	SI-TP-24 (12')	SI-TP-26 (5.5')	SI-TP-27 (9')	SI-TP-28 (8')	SI-TP-29 (8')	SI-TP-31 (5.5')	SI-TP-33 (1.5')	SI-TP-35 (10')	SI-TP-36 (5')	SI-TP-38E (10')	SI-TP-38E (20')					
						Date Sampled:					9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/11/08
Volatiles Organics - EPA Method 8260¹																																					
1,1,1-Trichloroethane	680	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1-Dichloroethane	270	19,000	26,000	240,000	480,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2,4-Trimethylbenzene	3600	47,000	52,000	190,000	380,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	74	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9 J	
1,2-Dichloropropane	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,3,5-Trimethylbenzene	8400	47,000	52,000	190,000	380,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26		
2-Butanone (MEK)	120	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	7.3	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
4-Isopropyltoluene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17 J	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Acetone	50	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	140	ND	ND	ND	ND	ND	ND	ND	71	29	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Benzene	60	2,900	4,800	44,000	89,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6 J		
Carbon disulfide	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	370	10,000	49,000	350,000	700,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	1000	30,000	41,000	390,000	780,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	
Freon 113	N/A	N/A	N/A	N/A	N/A																																
Isopropylbenzene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	210	44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m,p-Xylene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2 J	ND	ND	ND	ND	4.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.1	
Methylcyclohexane	N/A	N/A	N/A	N/A	N/A																																
Methylene chloride	50	51,000	100,000	500,000	1,000,000	3.5 J	19	7.2	3.9 J	3.8 J	17	15	3.4 J	15	16	19	3.2 J	26	ND	24 J	27	15	7.2	ND	2.2 J	ND	ND	ND	ND	ND	ND	ND	8.0	9.2			
Naphthalene	12,000	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	300	220	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
n-Butylbenzene	12000	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	300	220	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.4	
n-Propylbenzene	3900	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	92	87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6 J		
o-Xylene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37
sec-Butylbenzene	11000	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	690	160	6.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
tert-Butylbenzene	5900	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	55 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Tetrachloroethene	1300	5,500	19,000	150,000	300,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	54	
Toluene	700	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	2.9 J	ND	4.6 J	ND	2.4 J	ND	ND	4.5 J	ND	ND	ND	ND	4.6 J	ND	ND	ND	ND	ND	ND	ND	ND	22		
Trichloroethene	470	10,000	21,000	200,000	400,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND		
Xylene (Total)	260	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2 J	ND	ND	ND	ND	ND	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	42	
Semi-Volatile Organics - EPA Method 8270¹																																					
2-Methylnaphthalene	N/A	N/A	N/A	N/A	N/A	ND	ND	95 J	ND	ND	ND	ND	ND	200 J	ND	250 J	ND	ND	780	1100	8800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	98 J	ND	170 J	220 J		
4-Nitroaniline	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Acenaphthene	20,000	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	210 J	370 J	ND	ND	ND	2400	1000	690 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	250 J	500 J	ND	95 J			
Acenaphthylene	100,000	100,000	100,000	500,000	1,000,000	ND	ND	110 J	510	ND	ND	ND	ND	430	ND	ND	ND	ND	660 J	ND	ND	ND	ND	ND	ND	ND	ND	400 J	130 J	ND	ND	ND	ND	ND			
Anthracene	100,000	100,000	100,000	500,000	1,000,000	ND	ND	120 J	460	ND	210 J	1800 J	ND	520	2000	ND	ND	ND	1500	1100	280 J	ND	ND	ND	ND	ND	ND	360 J	570	930 J	130 J	320 J					
Benzo(a)anthracene	1,000	1,000	1,000	5,600	11,000	ND	250 J	390	1900	160 J	930	24,000	ND	1300	10000	230 J	ND	790	620	3100	ND	110 J	ND	ND	300 J	ND	ND	1800	1300	24,000	920	3800					
Benzo(a)pyrene	1,000	1,000	1,000	1,000	1,100	ND	240 J	370	2000	180 J	840	28,000	ND	1600	11000	210 J	ND	570	570	2900	ND	120 J	ND	ND	290 J	ND	ND	1600	1000	26,000	970	3800					
Benzo(b)fluoranthene	1,000	1,000	1,000	1,000	11,000	ND	310 J	490	2700	250 J	990	40,000	ND	2200	17000	340 J	ND	1200	800	3700	270 J	150 J	ND	ND	420	ND	ND	2200	1200	32,000	770	5300					
Benzo(g,h,i)perylene	100,000	100,000	100,000	500,000	1,000,000	ND	170 J	270 J	1500	160 J	570	26,000	ND	1200	10000	190 J	ND	630	340 J	1800	ND	ND	ND	ND	220 J	ND	ND	1300	570	24,000	860	3700					
Benzo(k)fluoranthene	800	1,000	3,900	56,000	110,000	ND	150 J	220 J	1000	120 J	540	20,000	ND	1000	6600	180 J	ND	500	320 J	1500	ND	ND	ND	ND	170 J	ND	ND	1200	690	11,000	240 J	2200					
Biphenyl	N/A	N/A	N/A	N/A	N/A																																
Bis(2-ethylhexyl)phthalate	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	390 J	ND	ND	ND	ND	ND	ND		
Butylbenzylphthalate	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	190 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Carbazole	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	250 J	ND	130 J	1600 J	ND	380	980 J	ND	ND	ND	ND	510 J	450 J	ND	ND	ND	ND	ND	ND	240 J	380	1,500 J	ND	360 J					
Chrysene	1,000	1,000	3,900	56,000	110,000	ND	300 J	410	2100	200 J	980	32,000	ND	1800	13000	300 J	ND	850	750	2900	230 J	140 J	ND	ND	350 J	ND	ND	1800	1400	28,000	1600	4200					
Dibenzo(a,h)anthracene	330	330	330	560	1,100	ND	ND	ND	380 J	ND	170 J																										

Table 3-1 Sub-Surface Soil Results - Test Pit VOCs & SVOCs

Detected Parameters	Unrestricted Use ²	Residential Use ³	Restricted-Residential Use ³	Commercial Use ³	Industrial Use ³	SI-TP-38W (20')	SI-TP-39 (21')	SI-TP-41 (12')	SI-TP-42 (5')	SI-TP-45 (5')	SI-TP-47 (4')	SI-TP-48 (2')	TP-1 (21')	TP-2 (22')	TP-4 (22')	TP-5 (18')	TP-6 (30')	TP-9 (20.5)	TP-11 (20')	TP-13 (24-25')	TP-14 (25-27')	TP-15 (11')	TP-16 (17')	TP-18 (22')	TP-19 (23')	TP-22 (30')	TP-23 (23')	TP-23 (28.5')	TP-39 (25')														
						Date Sampled:	9/11/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	12/17/09	12/17/09	12/17/09	12/17/09	12/18/09	12/21/09	12/21/09	12/22/09	12/22/09	12/22/09	12/23/09	12/23/09	12/28/09	12/29/09	12/30/09	12/30/09	12/30/09	12/30/09	1/21/10										
Volatile Organics - EPA Method 8260¹																																											
1,1,1-Trichloroethane	680	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	96.5	ND	181	ND	ND				
1,1-Dichloroethane	270	19,000	26,000	240,000	480,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.81 J	22.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.61 J	ND	ND				
1,2,4-Trimethylbenzene	3600	47,000	52,000	190,000	380,000	ND	ND	ND	ND	ND	ND	ND								5,500	1040																						
1,2-Dichloropropane	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
1,3,5-Trimethylbenzene	8400	47,000	52,000	190,000	380,000	ND	ND	ND	ND	ND	ND	ND								1760	302																						
2-Butanone (MEK)	120	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	26.5	ND	ND	33.8	ND	ND	ND	ND	778	ND	107	ND	12.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
4-Isopropyltoluene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND								ND	226 J																						
Acetone	50	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	59.0 B	239 B	ND	ND	372 B	ND	64.1 B	45,000 B	2560	ND	901	208	164	156	97.3	90.1											ND				
Benzene	60	2,900	4,800	44,000	89,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Carbon disulfide	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	3.50 J	ND	ND	13.5	ND	ND	ND	141	ND	13.6	ND	13.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Chloroform	370	10,000	49,000	350,000	700,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	4.10 J,B	ND	2.97 J,B												ND			
Ethylbenzene	1000	30,000	41,000	390,000	780,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.67 J	ND	117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Freon 113	N/A	N/A	N/A	N/A	N/A								ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Isopropylbenzene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
m,p-Xylene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.70 J	4.63 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Methylcyclohexane	N/A	N/A	N/A	N/A	N/A								ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Methylene chloride	50	51,000	100,000	500,000	1,000,000	3.6 J	2.3 J	ND	10	7.1	5.3 J	3.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Naphthalene	12,000	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND								55,300	4910																						
n-Butylbenzene	12000	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND								ND	195 J																						
n-Propylbenzene	3900	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND								ND	102																						
o-Xylene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.01 J	ND	81.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
sec-Butylbenzene	11000	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND								ND	ND																						
tert-Butylbenzene	5900	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND								ND	ND																						
Tetrachloroethene	1300	5,500	19,000	150,000	300,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.9	ND	ND	32.3	ND	ND	ND	ND	6.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Toluene	700	100,000	100,000	500,000	1,000,000	5.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.37 J		
Trichloroethene	470	10,000	21,000	200,000	400,000	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Xylene (Total)	260	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.70 J	6.64 J	ND	81.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Semi-Volatile Organics - EPA Method 8270¹																																											
2-Methylnaphthalene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2400	2150	ND	ND	361 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
4-Nitroaniline	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acenaphthene	20,000	100,000	100,000	500,000	1,000,000	130 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1510	3330	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,810 J	ND	ND	
Acenaphthylene	100,000	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	626	1770	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Anthracene	100,000	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	202 J	ND	ND	172 J	ND	1270	2720	1020 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzo(a)anthracene	1,000	1,000	1,000	5,600	11,000	480	230 J	ND	150 J	500	600	ND	ND	ND	1810	188 J	277 J	931	320	1010	1770	5970	331 J	ND	234 J	ND	10,300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	1,000	1,000	1,000	1,000	1,100	690	250 J	ND	150 J	670	730	ND	ND	ND	3210	284 J	485	1440	408	863	1750	9740	413	ND	258 J	ND	11,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	1,000	1,000	1,000	1,000	11,000	700	450	ND	270 J	850	810	ND	ND	ND	3810	296 J	478	1270	373	597	1170	7990	443	ND	314 J	ND	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	100,000	100,000	100,000	500,000	1,000,000	650	270 J	ND	170 J	740	750	ND	ND	ND	3410	273 J	442	1320	331	409 J	895	10400	436																				

Table 3-2 Sub-Surface Soil Results - Test Pits - Metals & PCBs

Detected Parameters	Unrestricted Use ²	Residential Use ³	Restricted-Residential Use ³	Commercial Use ³	Industrial Use ³	SI-TP-01	SI-TP-02	SI-TP-02A	SI-TP-05	SI-TP-06	SI-TP-08	SI-TP-09	SI-TP-11	SI-TP-12	SI-TP-13	SI-TP-14	SI-TP-19	SI-TP-20	SI-TP-21	SI-TP-22	SI-TP-23	SI-TP-24	SI-TP-26	SI-TP-27	SI-TP-28	SI-TP-29	SI-TP-31	SI-TP-33	SI-TP-35	SI-TP-36	SI-TP-38E	
						(4')	(15')	(1')	(2')	(5')	(5.5')	(3')	(2.5')	(2.5')	(18')	(6')	(9.5')	(12')	(17.5')	(18')	(5.5')	(12')	(5.5')	(9')	(8')	(8')	(5.5')	(1.5')	(10')	(5')	(10')	(10')
Date Sampled:						9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/9/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/10/08	9/11/08	
TAL Metals¹																																
Aluminum	N/A	N/A	N/A	N/A	N/A	7920	6120	5770	4410	4140	3560	2880	5440	4120	5590	4540	13800	6310	3430	5200	5590	7040	6220	13300	10700	15000	16300	8080	5840	9050	5260	
Antimony	N/A	N/A	N/A	N/A	N/A	1.5 N	0.72 BN	ND	1.3 N	1.3 N	13.0 N	0.38 BN	0.65 BN	0.77 BN	7.5 N	2.9 N	ND	4.4 N	0.17 BN	1.7 N	0.78 BN	0.44 BN	0.57 BN	0.27 BN	0.54 BN	0.32 BN	0.16 BN	2.9 N	0.29 BN	0.36 BN	0.39 BN	
Arsenic	13	16	16	16	16	3.4	4.3	5.3	9.6	9.7	28.6	2.2	3.4	14.2	3.9	8.4	6.2	22.0	4.9	4.5	9.9	3.1	10.1	2.6	6.6	3.6	3.4	13.7	4.7	3.2	3.1	
Barium	350	350	400	400	10,000	41.5 E	31.0 E	85.2 E	37.6 E	88.0 E	18.8 E	13.5 E	27.0 E	65.4 E	58.2 E	140 E	79.4 E	56.6 E	33.8	38.4	60.7	35.7	590	85.0	107	108	80.7	104	24.6	43.3	42.4	
Beryllium	7.2	14	72	590	2,700	0.51 E	0.31 E	0.27 E	0.26 BE	0.44 E	0.14 BE	0.11 BE	0.30 E	0.50 E	0.21 BE	0.51 E	1.4 E	0.37 E	0.21 B	0.37	0.41	0.37	0.58 E	0.95 E	0.87 E	1.2 E	1.2 E	0.60 E	0.36 E	0.33 E	0.22 E	
Cadmium	2.5	2.5	4.3	9.3	60	0.54	0.23	0.26	0.27 B	0.29 B	9.1	0.077 B	0.13 B	0.27	0.50	1.4	0.72	0.55	ND	0.23 B	0.38	0.042 B	0.22 BE	0.21 BE	0.48 E	0.26 BE	0.64 E	2.9 E	0.22 BE	1.1 E	0.41 E	
Calcium	N/A	N/A	N/A	N/A	N/A	17200	25900	33800	16900	127000	15300	12100	120000	31000	43300	34800	7210	14900	1980 *	41600 *	18300 *	4070 *	20800 *	6930 *	17400 *	7750 *	39000 *	10200 *	12100 *	16300 *	9760 *	
Chromium	1	36	110	400	6,800	6.1 E	13.4 E	8.7 E	12.4 E	11.7 E	37.5 E	5.8 E	7.5 E	9.9 E	12.1 E	8.1 E	10.3 E	12.2 E	10.8	9.5	13.2	8.6	29.5	14.7	22.7	18.8	15.0	18.2	10.2	41.8	18.7	
Cobalt	N/A	N/A	N/A	N/A	N/A	2.8 B	3.1	1.9 B	6.6	4.2	10.3	1.0 B	2.8	11.9	2.1 B	3.9	4.4	6.5	3.4	3.7	3.8	5.8	6.4 E	7.1 E	5.8 E	8.8 E	5.5 E	7.6 E	3.8 E	3.0 E	2.5 E	
Copper	50	270	270	270	10,000	96.3 *	81.4 *	43.9 *	324 *	82.6 *	6320 *	31.1 *	37.4 *	69.0 *	153 *	98.3 *	8.9 *	190 *	57.8	141	116	57.9	167 N	12.5 N	84.7 N	21.5 N	12.5 N	95.3 N	27.6 N	30.6 N	81.4 N	
Iron	N/A	N/A	N/A	N/A	N/A	14400 E	31900 E	22900 E	76600 E	34000 E	364000 E	7730 E	19500 E	44900 E	20600 E	12900 E	22600 E	51300 E	34300	21900	56000	21100	6380 *	23500 *	28100 *	28500 *	23900 *	48700 *	23200 *	14900 *	10100 *	
Lead	63	400	400	1,000	3,900	291 N*E	60.3 N*E	96.5 N*E	99.1 N*E	147 N*E	309 N*E	32.2 N*E	278 N*E	235 N*E	324 N*E	260 N*E	23.5 N*E	231 N*E	36.6 *	93.2 *	110 *	44.9 *	10100 E	11.8 E	175 E	15.1 E	14.8 E	275 E	29.0 E	37.8 E	116 E	
Magnesium	N/A	N/A	N/A	N/A	N/A	1100 E	2020 E	2030 E	1000 E	5480 E	1290 E	912 E	5030 E	3310 E	2100 E	1950 E	1690 E	2220 E	643	3270	1290	1450	681	3480	3490	5020	3060	939	1500	1740	1130	
Manganese	1600	2,000	2,000	10,000	10,000	164 E	642 E	544 E	846 E	364 E	1710 E	127 E	432 E	269 E	351 E	156 E	615 E	560 E	345	260	662	329	211 E	388 E	447 E	489 E	408 E	348 E	212 E	163 E	1600 E	
Mercury	0.18	0.81	0.81	2.8	5.7	1.6 *	0.18 *	0.12 *	0.047 *	0.17 *	0.17 *	0.032 *	0.095 *	4.5 *	0.32 *	1.0 *	0.075 *	0.097 *	11.4	9.3	10.3	13.4	714 *	0.033 *	3.8 *	0.037 *	0.069 *	5.4 *	0.025 B*	0.31 *	0.029 B*	
Nickel	30	140	310	310	10,000	6.0 E	7.4 E	6.3 E	11.6 E	12.0 E	32.2 E	4.7 E	6.3 E	21.1 E	12.6 E	13.5 E	10.1 E	11.0 E	319	597	671	860	13.0 E	11.9 E	13.5 E	15.8 E	13.2 E	13.5 E	6.7 E	17.9 E	13.0 E	
Potassium	N/A	N/A	N/A	N/A	N/A	609	765	637	372	671	249	241	593	369	508	503	610	754	ND	ND	ND	ND	0.72 B	577	1360	1550	1980	1310	650	690	890	448
Selenium	3.9	36	180	1,500	6,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5 B	2.1	2.4	2.9	1.3 B	5.7	2.6	2.0	1.6	
Silver	2	36	180	1,500	6,800	ND	ND	ND	ND	ND	0.51 B	ND	ND	ND	ND	ND	ND	ND	61.7	90.7	144	105	0.57 B	ND	ND	ND	ND	0.89 B	ND	ND	ND	
Sodium	N/A	N/A	N/A	N/A	N/A	95.0	133	232	91.8	96.4	52.5	41.7 B	73.6	101	80.9	106	54.1 B	116	0.83 B	0.59 B	0.52 B	0.73 B	345	161	183	234	110	83.9	119	110	104	
Thallium	N/A	N/A	N/A	N/A	N/A	ND	0.86 B	0.69 B	ND	0.69 B	ND	ND	0.92	0.86 B	0.42 B	0.61 B	ND	0.95	26.5	14.4	26.2	16.9	ND	ND	ND	ND	ND	0.55 B	ND	ND	ND	
Vanadium	N/A	N/A	N/A	N/A	N/A	13.1	23.6	15.9	29.5	12.5	77.9	6.4	12.6	18.9	16.8	10.2	19.1	21.9	47.7	113	133	71.2	22.8	25.0	24.2	30.3	24.6	14.4	19.6	12.4	7.4	
Zinc	109	2,200	10,000	10,000	10,000	276 NE	82.8 NE	76.4 NE	167 NE	121 NE	474 NE	31.1 NE	50.2 NE	105 NE	227 NE	578 NE	189 NE	301 NE	ND	0.24	0.043	0.12	172 NE	44.6 NE	112 NE	61.1 NE	137 NE	701 NE	30.1 NE	160 NE	80.7 NE	
PCBs - EPA Method 8081¹																																
Aroclor-1248	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.180 P	ND	ND	ND	ND
Aroclor-1260	0.1	1	1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Detected Parameters	Unrestricted Use ²	Residential Use ³	Restricted-Residential Use ³	Commercial Use ³	Industrial Use ³	SI-TP-38E	SI-TP-38W	SI-TP-39	SI-TP-41	SI-TP-42	SI-TP-45	SI-TP-47	SI-TP-48	TP-1	TP-2	TP-4	TP-5	TP-6	TP-9	TP-11	TP-13	TP-14	TP-15	TP-16	TP-18	TP-19	TP-22	TP-23	TP-23	TP-39		
						(20')	(20')	(21')	(12')	(5')	(5')	(4')	(2')	(21')	(22')	(22')	(18')	(30')	(20.5')	(20')	(24-25')	(25-27')	(11')	(17')	(22')	(23')	(30')	(23')	(28.5')	(25')		
Date Sampled:						9/11/08	9/11/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	12/17/09	12/17/09	12/17/09	12/17/09	12/18/09	12/21/09	12/21/09	12/22/09	12/22/09	12/22/09	12/23/09	12/23/09	12/28/09	12/29/09	12/30/09	12/30/09	1/21/10		
TAL Metals¹																																
Aluminum	N/A	N/A	N/A	N/A	N/A	7750	6210	7340	1150	830	2770	1970	17700	8030	7500	4790	5120	4650	6420	4730	5680	8740	4130	2820	1740	2760	3580	6490	9360	4880		
Antimony	N/A	N/A	N/A	N/A	N/A	0.75 BN	1.0 BN	0.77 BN	0.30 BN	0.20 BN	0.42 BN	0.15 BN	0.29 BN	ND	ND	ND	ND	ND	ND	ND	12.3	ND	ND	ND	ND	ND	ND	135	ND	ND		
Arsenic	13	16	16	16	16	2.9	5.4	3.8	3.6	0.90	2.9	2.6	3.2	8.15	2.71	3.77	4.36	17.3	4.57	2.23	61.9	80.4	3.23	9.69	1.88	2.24	2.48	14.4	1.03	ND		
Barium	350	350	400	400	10,000	45.7	33.5	37.8	7.6 B	10.5	26.2	35.6	50.2	51.9	35.3	48.4	116	145	47.4	33.7	381	311	53.7	182	21.5	65.5	35.6	483	36.5	25.9		
Beryllium	7.2	14	72	590	2,700	0.52 E	0.44 E	0.46 E	0.080 BE	0.044 BE	0.21 BE	0.19 BE	0.78 E	0.675	0.515	ND	ND	ND	ND	ND	0.897	ND	ND	ND	ND	ND	ND	ND	0.728	0.320		
Cadmium	2.5	2.5	4.3	9.3	60	0.37 E	0.74 E	0.44 E	0.11 BE	0.15 BE	0.43 E	0.56 E	0.59 E	ND	ND	ND	ND	ND	ND	0.616	2.99	ND	ND	ND	ND	ND	2.73	ND	0.674			
Calcium	N/A	N/A	N/A	N/A	N/A	19000 *	4780 *	11100 *	1260 *	1270 *	20900 *	5160 *	5890 *	4050	2080	4800	22800	21700	8440	33100	60400	90800	1550	15000	821	6170	3100	33,100	2,710	3190		
Chromium	1	36	110	400	6,800	21.8	65.5	10.8	9.7	4.2	25.7	16.9	8.7	19.7	9.25																	

Table 3-3 Sub-Surface Soil Results - Soil Borings VOCs & SVOCs

Detected Parameters	Unrestricted Use ²	Residential Use ³	Restricted-Residential Use ³	Commercial Use ³	Industrial Use ³	SI-SB-01	SI-SB-02	SI-SB-03	SI-SB-04	SI-SB-05	SI-SB-06	SI-SB-08	SI-SB-09	SI-SB-10	SI-SB-11	SI-SB-12	SI-SB-13	SI-SB-14	SI-SB-16	SI-SB-17	SI-SB-18	SI-SB-19
						(0-6')	(6-9')	(2-5')	(0-5')	(0-7')	(0-5')	(0.5-1')	(4-9')	(1-5')	(26-32')	(16-20')	(17-19')	(24-25')	(0-4')	(8-11.5')	(22.5-24.3')	(0-4')
Date Sampled:						9/2/08	9/2/08	9/2/08	9/2/08	9/3/08	9/3/08	9/3/08	9/3/08	9/3/08	9/4/08	9/4/08	9/4/08	9/5/08	9/5/08	9/5/08	9/5/08	9/8/08
Volatile Organics - EPA Method 8260¹																						
1,1-Dichloroethane	270	19,000	26,000	240,000	480,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3,600	47,000	52,000	190,000	380,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	47,000	52,000	190,000	380,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.7 J	ND	ND	ND	ND	ND
4-Isopropyltoluene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	100,000	100,000	500,000	1,000,000	ND	15	ND	ND	ND	ND	ND	11	34	20	ND	30	29	ND	32	ND	ND
Carbon disulfide	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3 J	ND	ND	ND	ND	10	ND	ND
m,p-Xylene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	50	51,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5 J	ND	ND	3.2 J	ND	ND	2.4 J
n-Butylbenzene	12,000	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2 J	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	100,000	100,000	500,000	1,000,000	2.2 J	ND	ND	ND	ND	ND	ND	ND	ND	3.2 J	ND	ND	ND	ND	ND	ND	ND
o-Xylene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	700	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	470	10,000	21,000	200,000	400,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	260	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organics - EPA Method 8270¹																						
2-Methylnaphthalene	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	160 J	ND	ND	ND	ND	ND	ND	ND	150 J	ND	200 J	73 J	ND	130 J
Acenaphthene	20,000	100,000	100,000	500,000	1,000,000	ND	ND	120 J	710	100 J	200 J	ND	ND	ND	830	ND	330 J	ND	190 J	ND	ND	ND
Acenaphthylene	100,000	100,000	100,000	500,000	1,000,000	130 J	100 J	170 J	130 J	98 J	ND	ND	ND	ND	330 J	ND	ND	ND	430 J	ND	ND	120 J
Anthracene	100,000	100,000	100,000	500,000	1,000,000	270 J	260 J	550	1400	400	500	ND	ND	ND	150 J	390 J	550	ND	1100	160 J	ND	120 J
Benzo(a)anthracene	1,000	1,000	1,000	5,600	11,000	850	940	1800	2500	930	1200	ND	140 J	ND	ND	6100	720	230 J	6100	510	ND	570
Benzo(a)pyrene	1,000	1,000	1,000	1,000	1,100	790	830	1500	2100	820	1100	ND	140 J	ND	ND	7400	640	260 J	5300	500	110 J	590
Benzo(b)fluoranthene	1,000	1,000	1,000	1,000	11,000	1000	1200	1900	2600	1100	1400	ND	210 J	ND	ND	12000	810	380 J	6300	740	150 J	910
Benzo(g,h,i)perylene	100,000	100,000	100,000	500,000	1,000,000	530	570	980	1300	570	750	ND	110 J	ND	ND	7100	390	270 J	3500	370	100 J	460
Benzo(k)fluoranthene	800	1,000	3,900	56,000	110,000	430	500	1000	1400	500	740	ND	ND	ND	3800	320 J	140 J	2700	240 J	ND	290 J	
Bis(2-ethylhexyl)phthalate	N/A	N/A	N/A	N/A	N/A	220 J	330 J	ND	140 J	270 J	150 J	ND	620	ND	ND	ND	340 J	ND	ND	ND	ND	ND
Carbazole	N/A	N/A	N/A	N/A	N/A	ND	170 J	230 J	830	250 J	360 J	ND	ND	ND	ND	360 J	230 J	ND	280 J	110 J	ND	ND
Chrysene	1,000	1,000	3,900	56,000	110,000	790	920	1800	2300	930	1200	ND	170 J	ND	ND	7400	710	260 J	7100	560	ND	660
Dibenzo(a,h)anthracene	330	330	330	560	1,100	130 J	150 J	260 J	380 J	160 J	200 J	ND	ND	ND	ND	2800	120 J	ND	1300	110 J	ND	130 J
Dibenzofuran	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	460	100 J	120 J	ND	ND	ND	180 J	ND	240 J	ND	190 J	ND	ND	ND
Fluoranthene	100,000	100,000	100,000	500,000	1,000,000	1600	1900	3700	5100	2200	2700	120 J	300 J	ND	190 J	6500	1700	410 J	9600	1100	ND	1200
Fluorene	30,000	100,000	100,000	500,000	1,000,000	ND	ND	140 J	810	150 J	210 J	ND	ND	ND	740	ND	350 J	ND	330 J	ND	ND	ND
Indeno(1,2,3-cd)pyrene	500	500	500	5,600	11,000	460	500	860	1200	510	660	ND	ND	ND	ND	6100	340 J	220 J	2600	320 J	ND	410
Naphthalene	12,000	100,000	100,000	500,000	1,000,000	ND	ND	ND	300 J	ND	77 J	ND	ND	ND	250 J	ND	490	ND	ND	81 J	ND	ND
Phenanthrene	100,000	100,000	100,000	500,000	1,000,000	800	1200	2100	5000	1800	2100	ND	160 J	ND	2000	2200	2100	310 J	4800	850	ND	640
Pyrene	100,000	100,000	100,000	500,000	1,000,000	1500	1500	3100	4100	1700	2200	110 J	260 J	ND	190 J	5500	1500	350 J	7600	870	ND	950

1 - results presented in micrograms per kilogram (ug/Kg).

2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives

3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

ND- not detected above reporting limit

J- value is estimated

	Value Exceeds Unrestricted SCOs
	Value Exceeds Residential Use SCOs
	Value Exceeds Restricted-Residential SCOs
	Value Exceeds Commercial Use SCOs
	Value Exceeds Industrial Use SCOs

Table 3-3 Sub-Surface Soil Results - Soil Borings VOCs & SVOCs

Detected Parameters	Unrestricted Use ²	Residential Use ³	Restricted-Residential Use ³	Commercial Use ³	Industrial Use ³	SI-SB-19	SI-SB-20	SI-SB-25	SI-SB-26	SI-SB-29	SI-SB-30	SI-SB-31	SI-SB-32	SI-SB-33	SI-SB-34	SI-SB-35	SI-SB-36	SI-SB-37	SI-WB-1	SI-WB-03
						(10-15')	(15-16.7')	(4-7.2')	(10-14')	(12-14.5')	(12-14')	(12-15.4')	(11-13.9')	(10-12.3')	(16-22')	(18-20')	(18-20.9')	(14-15.5')	(6-8.5')	(17-18')
Date Sampled:						9/8/08	9/8/08	9/8/08	9/9/08	9/9/08	9/9/08	9/10/08	9/10/08	9/10/08	9/10/08	9/11/08	9/11/08	9/11/08	9/12/08	9/17/08
Volatile Organics - EPA Method 8260¹																				
1,1-Dichloroethane	270	19,000	26,000	240,000	480,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3,600	47,000	52,000	190,000	380,000	1200	670	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	47,000	52,000	190,000	380,000	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	N/A	N/A	N/A	N/A	N/A	76	ND	ND	ND	ND	ND	47	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	N/A	N/A	N/A	N/A	N/A	94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	100,000	100,000	500,000	1,000,000	350	69	ND	ND	4.4 J	9.4	240	15 J	3.6 J	11	ND	ND	ND	ND	ND
Carbon disulfide	N/A	N/A	N/A	N/A	N/A	ND	12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	N/A	N/A	N/A	N/A	N/A	94	430	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	N/A	N/A	N/A	N/A	N/A	36	16 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	50	51,000	100,000	500,000	1,000,000	17 J	17 J	4.6 J	17	4.3 J	12	43	20 J	25	36	ND	ND	2.9 J	ND	4.8 J
n-Butylbenzene	12,000	100,000	100,000	500,000	1,000,000	190	770	ND	ND	ND	ND	ND	100	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	100,000	100,000	500,000	1,000,000	120	800	ND	ND	ND	ND	ND	9.0 J	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	100,000	100,000	500,000	1,000,000	460	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	N/A	N/A	N/A	N/A	N/A	ND	11 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	100,000	100,000	500,000	1,000,000	170	650	ND	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	100,000	100,000	500,000	1,000,000	12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	700	100,000	100,000	500,000	1,000,000	ND	ND	ND	ND	ND	2.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	470	10,000	21,000	200,000	400,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	5.7 J	2.4 J
Xylene (Total)	260	100,000	100,000	500,000	1,000,000	36	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organics - EPA Method 8270¹																				
2-Methylnaphthalene	N/A	N/A	N/A	N/A	N/A	17,000	44,000	ND	ND	ND	74 J	ND	140 J	ND	ND	ND	ND	ND	ND	130 J
Acenaphthene	20,000	100,000	100,000	500,000	1,000,000	1600 J	3300 J	ND	ND	ND	ND	ND	1200	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100,000	100,000	100,000	500,000	1,000,000	ND	ND	89 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100,000	100,000	100,000	500,000	1,000,000	730 J	ND	120 J	ND	ND	ND	ND	1300	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1,000	1,000	1,000	5,600	11,000	480 J	ND	410	ND	ND	100 J	310 J	ND	110 J	130 J	ND	ND	ND	ND	460
Benzo(a)pyrene	1,000	1,000	1,000	1,000	1,100	ND	ND	400	ND	ND	ND	280 J	ND	130 J	150 J	ND	ND	ND	ND	690
Benzo(b)fluoranthene	1,000	1,000	1,000	1,000	11,000	670 J	ND	480	ND	ND	140 J	400 J	ND	200 J	220 J	ND	ND	ND	ND	1000
Benzo(g,h,i)perylene	100,000	100,000	100,000	500,000	1,000,000	ND	ND	260 J	ND	ND	ND	240 J	ND	130 J	140 J	ND	ND	ND	ND	780
Benzo(k)fluoranthene	800	1,000	3,900	56,000	110,000	ND	ND	220 J	ND	ND	ND	190 J	ND	ND	ND	ND	ND	ND	ND	400
Bis(2-ethylhexyl)phthalate	N/A	N/A	N/A	N/A	N/A	ND	1200 J	990	350 J	140 J	180 J	ND	ND	400	ND	ND	ND	ND	ND	ND
Carbazole	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	1,000	1,000	3,900	56,000	110,000	580 J	ND	410	ND	ND	130 J	410 J	100 J	160 J	220 J	ND	ND	ND	ND	570
Dibenzo(a,h)anthracene	330	330	330	560	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230 J
Dibenzofuran	N/A	N/A	N/A	N/A	N/A	880 J	2000 J	ND	ND	ND	ND	ND	1100	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100,000	100,000	100,000	500,000	1,000,000	1300 J	ND	980	ND	150 J	230 J	700	300 J	290 J	200 J	ND	ND	ND	ND	660
Fluorene	30,000	100,000	100,000	500,000	1,000,000	2900	5600	ND	ND	ND	ND	ND	2700	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	500	500	500	5,600	11,000	ND	ND	230 J	ND	ND	ND	200 J	ND	110 J	120 J	ND	ND	ND	ND	650
Naphthalene	12,000	100,000	100,000	500,000	1,000,000	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	95 J
Phenanthrene	100,000	100,000	100,000	500,000	1,000,000	5600	10000	660	ND	ND	230 J	330 J	860	210 J	ND	ND	ND	ND	ND	410
Pyrene	100,000	100,000	100,000	500,000	1,000,000	1400 J	ND	820	ND	130 J	180 J	530	1200	220 J	170 J	ND	ND	ND	ND	560

1 - results presented in micrograms per kilogram (ug/Kg).

2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives

3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

ND- not detected above reporting limit

J- value is estimated

	Value Exceeds Unrestricted SCOs
	Value Exceeds Residential Use SCOs
	Value Exceeds Restricted-Residential SCOs
	Value Exceeds Commercial Use SCOs
	Value Exceeds Industrial Use SCOs

Sewalls Island Site #E623021
City of Watertown
Summary of Validated Analytical Results

Table 4 - Groundwater Results

Detected Parameters ¹	NYS Water Quality Standards	SI-MW1-01 12/2/08	SI-MW2S-01 12/3/08	SI-MW2D-01 12/3/08	SI-MW3-01 12/3/08	SI-MW4-01 12/3/08	SI-MW5-01 12/3/08	SI-MW6-01 12/3/08	SI-MW7-01 12/3/08	SI-MW8-01 12/2/08
Volatile Organics - EPA 8260										
1,1,1-Trichloroethane	5	ND	ND	ND	2.7 J	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	21	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50*	ND	ND	ND	ND	ND	ND	ND	6.7	ND
Acetone	50*	ND	ND	ND	ND	ND	ND	ND	78	ND
Chloroform	7	1.6 J	ND	ND	6.3	ND	ND	ND	8.3	2.6 J
Isopropylbenzene	5	ND	11	ND	ND	ND	ND	ND	ND	ND
Napthalene	10*	ND	22	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	5.1	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	13	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	5.2	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	2.9 J	ND	ND	190	ND
Xylene (Total)	5	ND	ND	ND	ND	1.9 J	ND	ND	1.6 J	ND
Semi-Volatile Organics - EPA 8270										
2-Methylnaphthalene	N/A	ND	87	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	1*	ND	ND	ND	ND	ND	ND	ND	51	ND
Acenaphthene	20*	ND	7.4 J	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	ND	4.1 J	ND	ND	ND	ND	2.7 J	ND
Carbazole	N/A	ND	1.4 J	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	N/A	ND	5.5 J	ND	ND	ND	ND	ND	ND	ND
Fluorene	50*	ND	10	ND	ND	ND	ND	ND	ND	ND
Napthalene	10*	ND	16	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50*	ND	5.7 J	ND	ND	ND	ND	ND	ND	ND
Phenol	1*	ND	ND	ND	ND	ND	ND	ND	4.8 J	ND
TAL Metals										
Aluminum	N/A	ND	5,260	ND	ND	613	124 B	ND	4,060	262
Antimony	3	ND	ND	ND	ND	ND	ND	ND	4.7 B	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	6.5 B	ND
Barium	1,000	68 B	143 B	202	67.7 B	95.9 B	36.2 B	156 B	29.8 B	115 B
Beryllium	3*	ND	0.39 B	ND	ND	ND	ND	ND	ND	ND
Calcium	N/A	184,000	229,000	104,000	134,000	146,000	152,000	86,400	32,300	399,000
Chromium	50	ND	7.3 B	ND	ND	1.6 B	1.7 B	ND	13.3 B	4.9 B
Cobalt	N/A	1.5 B	4.5 B	ND	ND	3.4 B	1.3 B	ND	2.6 B	2.9 B
Copper	200	12.5 B	36.0	ND	137	18.1 B	5.8 B	ND	48.0	14.9 B
Iron	300	ND	14,300	6,800	198 B	5,300	948	119 B	685	733
Lead	25	ND	22.3	ND	ND	9.7 B	ND	ND	2.3 B	ND
Magnesium	35,000*	14,500	17,900	17,400	11,800	18,000	7,220	8,430	406 B	34,400
Manganese	300	7.6 B	347	174	37.8 B	277	76.3	9.6 B	8.2 B	68.1
Mercury	0.70	ND	0.12 B	ND	ND	ND	ND	ND	0.086 B	ND
Nickel	100	2.6 B	6.2 B	ND	2.9 B	2.7 B	ND	1.6 B	19.3 B	2.4 B
Potassium	N/A	1,200	16,500	6,420	4,950	6,900	5,580	3,800	24,400	18,000
Selenium	10	ND	ND	ND	ND	ND	ND	ND	6.8 B	ND
Sodium	20,000	12,500	17,300	33,500	16,700	58,100	35,700	5,490	322,000	202,000
Vanadium	N/A	ND	8.2 B	1.1 B	ND	1.8 B	ND	ND	43.2 B	1.7 B
Zinc	2,000*	13.7 B	57.4	12.8 B	196	25.9 B	22.2 B	26.0 B	23.6 B	26 B
PCBs - EPA 8082 (none detected above laboratory detection limit)										

1- results shown in micrograms per liter (ug/L)
* NYSDEC Guidance Value (TOGS 1.1.1)
J- value is estimated
B- compound detected below reporting limit

ND- not detected above method detection limit

~ value detected above NYS Groundwater Quality Standard
[6 NYCRR Part 703.5] or NYSDEC Guidance Value [TOGS 1.1.1]

Table 5 IRM Closure Sample Results

Detected Parameters	Unrestricted Use ²	Residential Use ³	Restricted-Residential Use ³	Commercial Use ³	Industrial Use ³	SI-PAOC1-TP38-	SI-PAOC1-TP38-	SI-PAOC1-TP38-	SI-PAOC1-TP38-	SI-PAOC1-TP38-	SI-PAOC1-TP-39-	SI-PAOC3-	SI-PAOC3-	SI-PAOC3-	SI-PAOC3-	SI-PAOC3-	SI-PAOC3-	SI-PAOC3-	SI-PAOC3-
						NW	EW	SW	WW	Floor	Drum Floor	WW-ASH	NW1-A	NW2-A	EW-A	EW-B	SW1-A	SW2-A	WW-A
Date Sampled:						1/7/10	1/7/10	1/7/10	1/7/10	1/7/10	1/7/10	12/15/09	12/15/09	12/15/09	12/15/09	1/19/10	12/15/09	12/15/09	12/15/09
Volatile Organics - EPA Method 8260¹																			
1,1-Dichloroethane	270	19,000	26,000	240,000	480,000	3.71 J	26.8 J	ND	ND	8.22	ND								
1,1,1-Trichloroethane	680	100,000	100,000	500,000	1,000,000	51.8	1,500	413	245	374	196								
Ethylbenzene	1,000	30,000	41,000	390,000	780,000	7.14	40.6	ND	ND	4.34	ND								
Freon 113	N/A	N/A	N/A	N/A	N/A	ND	19.2 J	16.2	10.9	2.29 J	18								
m,p-Xylene	N/A	N/A	N/A	N/A	N/A	15.9	99.4	7.65 J	ND	8.68	ND								
Methylcyclohexane	N/A	N/A	N/A	N/A	N/A	ND	ND	ND	ND	4.68	ND								
o-Xylene	N/A	N/A	N/A	N/A	N/A	7.25	46.8	ND	ND	3.84 J	ND								
Toluene	700	100,000	100,000	500,000	1,000,000	7.31	45.8 M	ND	ND	6.07	ND								
Xylene (Total)	260	100,000	100,000	500,000	1,000,000	23.15	146.2	7.65 J	ND	12.52	ND								
Semi-Volatile Organics - EPA Method 8270¹																			
2-Methylnaphthalene	N/A	N/A	N/A	N/A	N/A	ND	ND	189 J	ND	ND	ND								
Acenaphthene	20,000	100,000	100,000	500,000	1,000,000	ND	ND	599	ND	217 J	ND								
Acenaphthylene	100,000	100,000	100,000	500,000	1,000,000	155 J	ND	ND	ND	299 J	ND								
Anthracene	100,000	100,000	100,000	500,000	1,000,000	ND	194 J	1,050	1,910	714	ND								
Benzo(a)anthracene	1,000	1,000	1,000	5,600	11,000	289 J	1,380	5,150	4,770	1,670	690								
Benzo(a)pyrene	1,000	1,000	1,000	1,000	1,100	354	1,850	4,490	3,850	1,610	711								
Benzo(b)fluoranthene	1,000	1,000	1,000	1,000	11,000	312	1,610	6,510	3,940	1,710	530								
Benzo(g,h,i)perylene	100,000	100,000	100,000	500,000	1,000,000	322	1,370	5,400	2,480	1,220	431								
Benzo(k)fluoranthene	800	1,000	3,900	56,000	110,000	297 J	1,320	4,510	3,640	1,090	222 J								
Carbazole	N/A	N/A	N/A	N/A	N/A	ND	ND	341 J	ND	173 J	ND								
Chrysene	1,000	1,000	3,900	56,000	110,000	353	1,790	5,280	5,080	1,770	1,740								
Dibenzo(a,h)anthracene	330	330	330	560	1,100	ND	596	1,520	887 J	458	ND								
Dibenzofuran	N/A	N/A	N/A	N/A	N/A	ND	ND	278 J	ND	158 J	ND								
Fluoranthene	100,000	100,000	100,000	500,000	1,000,000	405	1,410	5,630	12,700	3,210	247 J								
Fluorene	30,000	100,000	100,000	500,000	1,000,000	ND	ND	401	ND	218 J	ND								
Indeno(1,2,3-cd)pyrene	500	500	500	5,600	11,000	249 J	1,090	3,910	1,770	846	359								
Naphthalene	12,000	100,000	100,000	500,000	1,000,000	ND	ND	492	ND	190 J	ND								
Phenanthrene	100,000	100,000	100,000	500,000	1,000,000	354	515	3,280	8,330	2,260	ND								
Pyrene	100,000	100,000	100,000	500,000	1,000,000	476	1,340 M	5,170	10,100	2,760	293 J								
Metals⁴																			
Aluminum	N/A	N/A	N/A	N/A	N/A	2560	4650	6840	3230	3670	5420								
Antimony	N/A	N/A	N/A	N/A	N/A	ND	ND	8.31	ND	ND	ND								
Arsenic	13	16	16	16	16	ND	2.91	4.61	14.8	4.02	ND								
Barium	350	350	400	400	10,000	19.1	47.4	32.4	27.5	42.8	33.9								
Cadmium	2.5	2.5	4.3	9.3	60	ND	0.558	0.999	13.6	0.487	ND								
Calcium	N/A	N/A	N/A	N/A	N/A	9,800	22200	38,000	4,960	29,700	102,000								
Chromium	1	36	110	400	6,800	3.71	20.9	20.0	419	32.9	13.4								
Cobalt	N/A	N/A	N/A	N/A	N/A	1.86	4.91	4.72	29.0	3.19	3.31								
Copper	50	270	270	270	10,000	31.7	882	5,310	908	746	25.0								
Iron	N/A	N/A	N/A	N/A	N/A	9,440	19600	21,900	393,000	16,100	11,200								
Lead	63	400	400	1,000	3,900	26.4	135	823	140	151	39.3								
Magnesium	N/A	N/A	N/A	N/A	N/A	881	1390	2,630	309	2,450	4,950								
Manganese	1600	2,000	2,000	10,000	10,000	148	578	512	2,790	310	278								
Mercury	0.18	0.81	0.81	2.8	5.7	0.126	0.137	0.160	0.131	0.456	0.0960	ND	0.283	0.0321	0.98	0.0858 D,M	0.0730 D,M	0.0741	0.421
Nickel	30	140	310	310	10,000	ND	25.4	25.3	273	19.3	12.5								
Potassium	N/A	N/A	N/A	N/A	N/A	445	513	923	409	611	985								
Sodium	N/A	N/A	N/A	N/A	N/A	ND	131	197	114	109	134								
Vanadium	N/A	N/A	N/A	N/A	N/A	9.48	11.9	13.2	21.3	10.8	9.44								
Zinc	109	2,200	10,000	10,000	10,000	43.6	244	5,970	251	256	39.1								

1 - results presented in micrograms per kilogram (ug/Kg).
 2 - 6 NYCRR Part 375-6.8 - Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives
 3 - 6 NYCRR Part 375-6.8 - Table 375-6.8(b): Restricted Use Soil Cleanup Objectives
 4 - results presented in milligrams per kilogram (mg/Kg).
 ND- not detected above reporting limit
 J- value is estimated

	Value Exceeds Unrestricted SCOs
	Value Exceeds Residential Use SCOs
	Value Exceeds Restricted-Residential SCOs
	Value Exceeds Commercial Use SCOs
	Value Exceeds Industrial Use SCOs

Attachment B

PDI Laboratory Analytical Package

October 9, 2015

Megan Miller
EA Engineering, Science & Tech. - NY
6712 Brooklawn Parkway, Suite 104
Syracuse, NY 13211

Project Location: Sewall's Island
Client Job Number:
Project Number: 1490709
Laboratory Work Order Number: 1511054

Enclosed are results of analyses for samples received by the laboratory on September 24, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Aaron L. Benoit
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

EA Engineering, Science & Tech. - NY
 6712 Brooklawn Parkway, Suite 104
 Syracuse, NY 13211
 ATTN: Megan Miller

REPORT DATE: 10/9/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490709

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1511054

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sewall's Island

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-43-EA-0-2	1511054-01	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-44-EA-0-2	1511054-02	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-45-EA-0-2	1511054-03	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-46-EA-0-2	1511054-04	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-47-EA-0-1	1511054-05	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-48-EA-0-1	1511054-06	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-49-EA-0-2	1511054-07	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-50-EA-0-2	1511054-08	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	

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PROJECT LOCATION: Sewall's Island

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-51-EA-0-1	1511054-09	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-52-EA-0-1	1511054-10	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-53-EA-0-1	1511054-11	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-54-EA-0-2	1511054-12	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-55-EA-0-2	1511054-13	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-56-EA-0-1	1511054-14	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-57-EA-0-1	1511054-15	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-58-EA-0-1	1511054-16	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	

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PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490709

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1511054

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sewall's Island

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-59-EA-0-1	1511054-17	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-60-EA-0-1	1511054-18	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-61-EA-0-1	1511054-19	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-62-EA-0-1	1511054-20	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-63-EA-0-1	1511054-21	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-64-EA-0-1	1511054-22	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-65-EA-0-1	1511054-23	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
RB-092215	1511054-24	Water		SW-846 6010C SW-846 7470A SW-846 8260C SW-846 8270D	

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PROJECT NUMBER: 1490709

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1511054

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sewall's Island

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RB-092315	1511054-25	Water		SW-846 6010C SW-846 7470A SW-846 8260C SW-846 8270D	
DUP-01	1511054-26	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
DUP-02	1511054-27	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
CD-01-EA	1511054-28	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
CD-02-EA	1511054-29	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
CD-03-EA	1511054-30	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
CD-04-EA	1511054-31	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
CD-05-EA	1511054-32	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	

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 ATTN: Megan Miller

REPORT DATE: 10/9/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490709

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1511054

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sewall's Island

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CD-06-EA	1511054-33	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260C	
				SW-846 8270D	
CD-07-EA	1511054-34	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260C	
				SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 6010C

Qualifications:**B**

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:**Aluminum**

1511054-01[SS-43-EA-0-2], 1511054-02[SS-44-EA-0-2], 1511054-03[SS-45-EA-0-2], 1511054-04[SS-46-EA-0-2], 1511054-05[SS-47-EA-0-1], 1511054-06[SS-48-EA-0-1], 1511054-07[SS-49-EA-0-2], 1511054-08[SS-50-EA-0-2], 1511054-09[SS-51-EA-0-1], 1511054-10[SS-52-EA-0-1], 1511054-11[SS-53-EA-0-1], 1511054-12[SS-54-EA-0-2], 1511054-13[SS-55-EA-0-2], 1511054-14[SS-56-EA-0-1], 1511054-15[SS-57-EA-0-1], 1511054-16[SS-58-EA-0-1], 1511054-17[SS-59-EA-0-1], 1511054-18[SS-60-EA-0-1], 1511054-19[SS-61-EA-0-1], 1511054-20[SS-62-EA-0-1], B131516-BS1, B131516-BSD1, B131516-DUP1, B131516-MS1, B131516-MSD1

Manganese

1511054-24[RB-092215], 1511054-25[RB-092315], B131680-BS2, B131680-BSD2, B131680-DUP1, B131680-MS1, B131680-MS2

B-07

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:**Aluminum**

1511054-01[SS-43-EA-0-2], 1511054-02[SS-44-EA-0-2], 1511054-03[SS-45-EA-0-2], 1511054-04[SS-46-EA-0-2], 1511054-05[SS-47-EA-0-1], 1511054-06[SS-48-EA-0-1], 1511054-07[SS-49-EA-0-2], 1511054-08[SS-50-EA-0-2], 1511054-09[SS-51-EA-0-1], 1511054-10[SS-52-EA-0-1], 1511054-11[SS-53-EA-0-1], 1511054-12[SS-54-EA-0-2], 1511054-13[SS-55-EA-0-2], 1511054-14[SS-56-EA-0-1], 1511054-15[SS-57-EA-0-1], 1511054-17[SS-59-EA-0-1], 1511054-18[SS-60-EA-0-1], 1511054-19[SS-61-EA-0-1], 1511054-20[SS-62-EA-0-1], B131516-BLK1

Manganese

1511054-24[RB-092215], 1511054-25[RB-092315], B131680-BLK1, B131680-DUP1

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Antimony**

1511054-15RE1[SS-57-EA-0-1], B132301-MS1, B132301-MSD1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Antimony**

1511054-22[SS-64-EA-0-1], B131517-MS1, B131517-MSD1

Manganese

1511054-22[SS-64-EA-0-1], B131517-MS1, B131517-MSD1

Silver

1511054-22[SS-64-EA-0-1], B131517-MS1, B131517-MSD1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:**Aluminum**

1511054-15[SS-57-EA-0-1], 1511054-22[SS-64-EA-0-1], B131516-MS1, B131516-MSD1, B131517-MS1, B131517-MSD1

Calcium

1511054-15[SS-57-EA-0-1], 1511054-22[SS-64-EA-0-1], B131516-MS1, B131516-MSD1, B131517-MS1, B131517-MSD1

Iron

1511054-15[SS-57-EA-0-1], 1511054-22[SS-64-EA-0-1], B131516-MS1, B131516-MSD1, B131517-MS1, B131517-MSD1

Magnesium

1511054-15[SS-57-EA-0-1], 1511054-22[SS-64-EA-0-1], B131516-MS1, B131517-MS1, B131517-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**Barium**

1511054-15[SS-57-EA-0-1], B131516-MS1

Lead

1511054-22[SS-64-EA-0-1], B131517-MS1

Manganese

1511054-15[SS-57-EA-0-1], B131516-MS1, B131516-MSD1

Selenium

1511054-15[SS-57-EA-0-1], B131516-MS1

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:**Arsenic**

1511054-22[SS-64-EA-0-1], B131517-DUP1

Calcium

1511054-22[SS-64-EA-0-1], B131517-DUP1

Lead

1511054-22[SS-64-EA-0-1], B131517-DUP1

Magnesium

1511054-22[SS-64-EA-0-1], B131517-DUP1

Manganese

1511054-22[SS-64-EA-0-1], B131517-DUP1

R-04

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:**Silver**

1511054-22[SS-64-EA-0-1], B131517-DUP1

SW-846 7470A

Qualifications:**L-07**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Mercury**

B131550-BS1

SW-846 7471B

Qualifications:**L-07A**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**Mercury**

B131515-BSD1

SW-846 8260C

Qualifications:**L-02**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**Carbon Disulfide**

B131742-BS1, B131742-BSD1

Chloroethane

B131920-BS1, B131920-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene**

1511054-01[SS-43-EA-0-2], 1511054-02[SS-44-EA-0-2], 1511054-03[SS-45-EA-0-2], 1511054-04[SS-46-EA-0-2], 1511054-05[SS-47-EA-0-1], 1511054-06[SS-48-EA-0-1], 1511054-07[SS-49-EA-0-2], 1511054-09[SS-51-EA-0-1], 1511054-10[SS-52-EA-0-1], 1511054-11[SS-53-EA-0-1], 1511054-12[SS-54-EA-0-2], 1511054-13[SS-55-EA-0-2], B131664-BLK1, B131664-BS1, B131664-BSD1

Bromomethane

1511054-24[RB-092215], 1511054-25[RB-092315], B131920-BLK1, B131920-BS1, B131920-BSD1

L-06

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:**Acetone**

B131664-BS1, B131664-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

B132032-BSD1

1,2,4-Trichlorobenzene

B131850-BS1, B132032-BSD1

Dichlorodifluoromethane (Freon 12)

B131664-BS1, B131920-BS1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

1511054-15[SS-57-EA-0-1], 1511054-22[SS-64-EA-0-1], B131742-MS1, B131742-MSD1, B131850-MS1, B131850-MSD1

1,2,4-Trichlorobenzene

1511054-15[SS-57-EA-0-1], 1511054-22[SS-64-EA-0-1], B131742-MS1, B131742-MSD1, B131850-MS1, B131850-MSD1

1,2-Dibromo-3-chloropropane (DBP)

1511054-15[SS-57-EA-0-1], 1511054-22[SS-64-EA-0-1], B131742-MS1, B131742-MSD1, B131850-MS1, B131850-MSD1

1,3,5-Trichlorobenzene

1511054-22[SS-64-EA-0-1], B131850-MS1, B131850-MSD1

Acrylonitrile

1511054-22[SS-64-EA-0-1], B131850-MS1, B131850-MSD1

Bromomethane

1511054-22[SS-64-EA-0-1], B131850-MS1, B131850-MSD1

Dichlorodifluoromethane (Freon 12)

1511054-15[SS-57-EA-0-1], 1511054-22[SS-64-EA-0-1], B131742-MS1, B131742-MSD1, B131850-MS1, B131850-MSD1

Naphthalene

1511054-15[SS-57-EA-0-1], 1511054-22[SS-64-EA-0-1], B131742-MS1, B131742-MSD1, B131850-MS1, B131850-MSD1

trans-1,4-Dichloro-2-butene

1511054-22[SS-64-EA-0-1], B131850-MS1, B131850-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**Hexachlorobutadiene**

B131850-MS1

n-Butylbenzene

B131850-MS1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:**1,3,5-Trichlorobenzene**

B131742-MSD1

Bromomethane

B131742-MS1

trans-1,4-Dichloro-2-butene

B131742-MSD1

PR-03

Sample preserved in the laboratory, not in the field as required by the method.

Analyte & Samples(s) Qualified:

1511054-01[SS-43-EA-0-2], 1511054-02[SS-44-EA-0-2], 1511054-03[SS-45-EA-0-2], 1511054-04[SS-46-EA-0-2], 1511054-05[SS-47-EA-0-1], 1511054-06[SS-48-EA-0-1], 1511054-07[SS-49-EA-0-2], 1511054-08[SS-50-EA-0-2], 1511054-09[SS-51-EA-0-1], 1511054-10[SS-52-EA-0-1], 1511054-11[SS-53-EA-0-1], 1511054-12[SS-54-EA-0-2], 1511054-13[SS-55-EA-0-2], 1511054-14[SS-56-EA-0-1], 1511054-15[SS-57-EA-0-1], 1511054-16[SS-58-EA-0-1], 1511054-17[SS-59-EA-0-1], 1511054-18[SS-60-EA-0-1], 1511054-33[CD-06-EA], 1511054-34[CD-07-EA]

PR-15

According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.

Analyte & Samples(s) Qualified:

1511054-01[SS-43-EA-0-2], 1511054-02[SS-44-EA-0-2], 1511054-03[SS-45-EA-0-2], 1511054-04[SS-46-EA-0-2], 1511054-05[SS-47-EA-0-1], 1511054-06[SS-48-EA-0-1], 1511054-07[SS-49-EA-0-2], 1511054-08[SS-50-EA-0-2], 1511054-09[SS-51-EA-0-1], 1511054-10[SS-52-EA-0-1], 1511054-11[SS-53-EA-0-1], 1511054-12[SS-54-EA-0-2], 1511054-13[SS-55-EA-0-2], 1511054-14[SS-56-EA-0-1], 1511054-15[SS-57-EA-0-1], 1511054-16[SS-58-EA-0-1], 1511054-17[SS-59-EA-0-1], 1511054-18[SS-60-EA-0-1], 1511054-19[SS-61-EA-0-1], 1511054-20[SS-62-EA-0-1], 1511054-21[SS-63-EA-0-1], 1511054-22[SS-64-EA-0-1], 1511054-23[SS-65-EA-0-1], 1511054-26[DUP-01], 1511054-27[DUP-02], 1511054-28[CD-01-EA], 1511054-29[CD-02-EA], 1511054-30[CD-03-EA], 1511054-31[CD-04-EA], 1511054-32[CD-05-EA], 1511054-33[CD-06-EA], 1511054-34[CD-07-EA]

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Bromomethane**

1511054-01[SS-43-EA-0-2], 1511054-02[SS-44-EA-0-2], 1511054-03[SS-45-EA-0-2], 1511054-04[SS-46-EA-0-2], 1511054-05[SS-47-EA-0-1], 1511054-06[SS-48-EA-0-1], 1511054-07[SS-49-EA-0-2], 1511054-09[SS-51-EA-0-1], 1511054-10[SS-52-EA-0-1], 1511054-11[SS-53-EA-0-1], 1511054-12[SS-54-EA-0-2], 1511054-13[SS-55-EA-0-2], 1511054-24[RB-092215], 1511054-25[RB-092315], B131664-BLK1, B131664-BS1, B131664-BSD1, B131920-BLK1, B131920-BS1, B131920-BSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**trans-1,4-Dichloro-2-butene**

1511054-22[SS-64-EA-0-1], B131850-MS1, B131850-MSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

15I1054-01[SS-43-EA-0-2], 15I1054-02[SS-44-EA-0-2], 15I1054-03[SS-45-EA-0-2], 15I1054-04[SS-46-EA-0-2], 15I1054-05[SS-47-EA-0-1], 15I1054-06[SS-48-EA-0-1], 15I1054-07[SS-49-EA-0-2], 15I1054-08[SS-50-EA-0-2], 15I1054-09[SS-51-EA-0-1], 15I1054-10[SS-52-EA-0-1], 15I1054-11[SS-53-EA-0-1], 15I1054-12[SS-54-EA-0-2], 15I1054-13[SS-55-EA-0-2], 15I1054-14[SS-56-EA-0-1], 15I1054-15[SS-57-EA-0-1], 15I1054-16[SS-58-EA-0-1], 15I1054-17[SS-59-EA-0-1], 15I1054-18[SS-60-EA-0-1], 15I1054-19[SS-61-EA-0-1], 15I1054-20[SS-62-EA-0-1], 15I1054-21[SS-63-EA-0-1], 15I1054-22[SS-64-EA-0-1], 15I1054-23[SS-65-EA-0-1], 15I1054-26[DUP-01], 15I1054-27[DUP-02], 15I1054-28[CD-01-EA], 15I1054-29[CD-02-EA], 15I1054-30[CD-03-EA], 15I1054-31[CD-04-EA], 15I1054-32[CD-05-EA], 15I1054-33[CD-06-EA], 15I1054-34[CD-07-EA], B131664-BLK1, B131664-BS1, B131664-BSD1, B131742-BLK1, B131742-BS1, B131742-BSD1, B131850-BLK1, B131850-BS1, B131850-BSD1, B131850-MS1, B131850-MSD1, B132032-BLK1, B132032-BS1, B132032-BSD1

1,2,4-Trichlorobenzene

15I1054-01[SS-43-EA-0-2], 15I1054-02[SS-44-EA-0-2], 15I1054-03[SS-45-EA-0-2], 15I1054-04[SS-46-EA-0-2], 15I1054-05[SS-47-EA-0-1], 15I1054-06[SS-48-EA-0-1], 15I1054-07[SS-49-EA-0-2], 15I1054-08[SS-50-EA-0-2], 15I1054-09[SS-51-EA-0-1], 15I1054-10[SS-52-EA-0-1], 15I1054-11[SS-53-EA-0-1], 15I1054-12[SS-54-EA-0-2], 15I1054-13[SS-55-EA-0-2], 15I1054-14[SS-56-EA-0-1], 15I1054-15[SS-57-EA-0-1], 15I1054-16[SS-58-EA-0-1], 15I1054-17[SS-59-EA-0-1], 15I1054-18[SS-60-EA-0-1], 15I1054-19[SS-61-EA-0-1], 15I1054-20[SS-62-EA-0-1], 15I1054-21[SS-63-EA-0-1], 15I1054-22[SS-64-EA-0-1], 15I1054-23[SS-65-EA-0-1], 15I1054-26[DUP-01], 15I1054-27[DUP-02], 15I1054-28[CD-01-EA], 15I1054-29[CD-02-EA], 15I1054-30[CD-03-EA], 15I1054-31[CD-04-EA], 15I1054-32[CD-05-EA], 15I1054-33[CD-06-EA], 15I1054-34[CD-07-EA], B131664-BLK1, B131664-BS1, B131664-BSD1, B131742-BLK1, B131742-BS1, B131742-BSD1, B131850-BLK1, B131850-BS1, B131850-BSD1, B131850-MS1, B131850-MSD1, B132032-BLK1, B132032-BS1, B132032-BSD1

1,2-Dibromo-3-chloropropane (DBP)

15I1054-01[SS-43-EA-0-2], 15I1054-02[SS-44-EA-0-2], 15I1054-03[SS-45-EA-0-2], 15I1054-04[SS-46-EA-0-2], 15I1054-05[SS-47-EA-0-1], 15I1054-06[SS-48-EA-0-1], 15I1054-07[SS-49-EA-0-2], 15I1054-08[SS-50-EA-0-2], 15I1054-09[SS-51-EA-0-1], 15I1054-10[SS-52-EA-0-1], 15I1054-11[SS-53-EA-0-1], 15I1054-12[SS-54-EA-0-2], 15I1054-13[SS-55-EA-0-2], 15I1054-14[SS-56-EA-0-1], 15I1054-15[SS-57-EA-0-1], 15I1054-16[SS-58-EA-0-1], 15I1054-17[SS-59-EA-0-1], 15I1054-18[SS-60-EA-0-1], 15I1054-19[SS-61-EA-0-1], 15I1054-20[SS-62-EA-0-1], 15I1054-21[SS-63-EA-0-1], 15I1054-22[SS-64-EA-0-1], 15I1054-23[SS-65-EA-0-1], 15I1054-26[DUP-01], 15I1054-27[DUP-02], 15I1054-28[CD-01-EA], 15I1054-29[CD-02-EA], 15I1054-30[CD-03-EA], 15I1054-31[CD-04-EA], 15I1054-32[CD-05-EA], 15I1054-33[CD-06-EA], 15I1054-34[CD-07-EA], B131664-BLK1, B131664-BS1, B131664-BSD1, B131742-BLK1, B131742-BS1, B131742-BSD1, B131850-BLK1, B131850-BS1, B131850-BSD1, B131850-MS1, B131850-MSD1, B132032-BLK1, B132032-BS1, B132032-BSD1

Bromoform

15I1054-24[RB-092215], 15I1054-25[RB-092315], B131920-BLK1, B131920-BS1, B131920-BSD1

Bromomethane

15I1054-24[RB-092215], 15I1054-25[RB-092315], B131920-BLK1, B131920-BS1, B131920-BSD1

Dichlorodifluoromethane (Freon 12)

15I1054-24[RB-092215], 15I1054-25[RB-092315], B131920-BLK1, B131920-BS1, B131920-BSD1

Naphthalene

15I1054-01[SS-43-EA-0-2], 15I1054-02[SS-44-EA-0-2], 15I1054-03[SS-45-EA-0-2], 15I1054-04[SS-46-EA-0-2], 15I1054-05[SS-47-EA-0-1], 15I1054-06[SS-48-EA-0-1], 15I1054-07[SS-49-EA-0-2], 15I1054-08[SS-50-EA-0-2], 15I1054-09[SS-51-EA-0-1], 15I1054-10[SS-52-EA-0-1], 15I1054-11[SS-53-EA-0-1], 15I1054-12[SS-54-EA-0-2], 15I1054-13[SS-55-EA-0-2], 15I1054-14[SS-56-EA-0-1], 15I1054-15[SS-57-EA-0-1], 15I1054-16[SS-58-EA-0-1], 15I1054-17[SS-59-EA-0-1], 15I1054-18[SS-60-EA-0-1], 15I1054-19[SS-61-EA-0-1], 15I1054-20[SS-62-EA-0-1], 15I1054-21[SS-63-EA-0-1], 15I1054-22[SS-64-EA-0-1], 15I1054-23[SS-65-EA-0-1], 15I1054-26[DUP-01], 15I1054-27[DUP-02], 15I1054-28[CD-01-EA], 15I1054-29[CD-02-EA], 15I1054-30[CD-03-EA], 15I1054-31[CD-04-EA], 15I1054-32[CD-05-EA], 15I1054-33[CD-06-EA], 15I1054-34[CD-07-EA], B131664-BLK1, B131664-BS1, B131664-BSD1, B131742-BLK1, B131742-BS1, B131742-BSD1, B131850-BLK1, B131850-BS1, B131850-BSD1, B131850-MS1, B131850-MSD1, B132032-BLK1, B132032-BS1, B132032-BSD1

trans-1,4-Dichloro-2-butene

15I1054-08[SS-50-EA-0-2], 15I1054-14[SS-56-EA-0-1], 15I1054-15[SS-57-EA-0-1], 15I1054-16[SS-58-EA-0-1], 15I1054-17[SS-59-EA-0-1], 15I1054-18[SS-60-EA-0-1], B131742-BLK1, B131742-BS1, B131742-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

B131920-BS1, B131920-BSD1

2-Butanone (MEK)

B131920-BS1, B131920-BSD1

2-Hexanone (MBK)

B131920-BS1, B131920-BSD1

4-Methyl-2-pentanone (MIBK)

B131920-BS1, B131920-BSD1

Acetone

B131920-BS1, B131920-BSD1

Chloroethane

B131920-BS1, B131920-BSD1

tert-Butyl Alcohol (TBA)

B131664-BS1, B131664-BSD1, B131920-BS1, B131920-BSD1

SW-846 8270D

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Benzidine**

15I1054-24[RB-092215], 15I1054-25[RB-092315], B131595-BLK1, B131595-BS1, B131595-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**2,4-Dimethylphenol**

B131595-BS1

2,4-Dinitrophenol

B131595-BS1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

15I1054-15[SS-57-EA-0-1], B131546-MS1, B131546-MSD1

Aniline

15I1054-16[SS-58-EA-0-1], B131546-MS1, B131546-MSD1

Benzidine

15I1054-16[SS-58-EA-0-1], 15I1054-22[SS-64-EA-0-1], B131500-MS1, B131500-MSD1, B131546-MS1, B131546-MSD1

Benzoic Acid

15I1054-16[SS-58-EA-0-1], 15I1054-22[SS-64-EA-0-1], B131500-MS1, B131500-MSD1, B131546-MS1, B131546-MSD1

Hexachlorocyclopentadiene

15I1054-22[SS-64-EA-0-1], B131500-MS1, B131500-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**Aniline**

B131500-MSD1

Fluoranthene

B131500-MS1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**2,4-Dimethylphenol**

15I1054-24[RB-092215], 15I1054-25[RB-092315], B131595-BLK1, B131595-BSD1

2,4-Dinitrophenol

15I1054-21[SS-63-EA-0-1], 15I1054-22[SS-64-EA-0-1], 15I1054-23[SS-65-EA-0-1], 15I1054-24[RB-092215], 15I1054-25[RB-092315], 15I1054-26[DUP-01], 15I1054-27[DUP-02], 15I1054-28[CD-01-EA], 15I1054-29[CD-02-EA], 15I1054-30[CD-03-EA], 15I1054-31[CD-04-EA], 15I1054-32[CD-05-EA], 15I1054-33[CD-06-EA], 15I1054-34[CD-07-EA], B131500-BLK1, B131500-BS1, B131500-BSD1, B131595-BLK1, B131595-BSD1

Benzidine

15I1054-21[SS-63-EA-0-1], 15I1054-22[SS-64-EA-0-1], 15I1054-23[SS-65-EA-0-1], 15I1054-26[DUP-01], 15I1054-27[DUP-02], 15I1054-28[CD-01-EA], 15I1054-29[CD-02-EA], 15I1054-30[CD-03-EA], 15I1054-31[CD-04-EA], 15I1054-32[CD-05-EA], 15I1054-33[CD-06-EA], 15I1054-34[CD-07-EA], B131500-BLK1, B131500-BS1, B131500-BSD1

Benzoic Acid

15I1054-24[RB-092215], 15I1054-25[RB-092315], B131595-BLK1, B131595-BS1, B131595-BSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**2-Chloronaphthalene**

15I1054-16[SS-58-EA-0-1], B131546-MS1, B131546-MSD1

Phenanthrene

15I1054-22[SS-64-EA-0-1], B131500-MS1, B131500-MSD1

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

15I1054-21[SS-63-EA-0-1]

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:**2,4,6-Tribromophenol**

15I1054-32[CD-05-EA]

p-Terphenyl-d14

15I1054-29RE1[CD-02-EA], 15I1054-34RE1[CD-07-EA]

S-19

Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.

Analyte & Samples(s) Qualified:**2,4,6-Tribromophenol**

15I1054-29[CD-02-EA], 15I1054-29RE1[CD-02-EA], 15I1054-30[CD-03-EA], 15I1054-30RE1[CD-03-EA], 15I1054-31[CD-04-EA], 15I1054-31RE1[CD-04-EA], 15I1054-34[CD-07-EA], 15I1054-34RE1[CD-07-EA]

2-Fluorophenol

15I1054-29[CD-02-EA], 15I1054-29RE1[CD-02-EA], 15I1054-30RE1[CD-03-EA], 15I1054-31[CD-04-EA], 15I1054-31RE1[CD-04-EA], 15I1054-34[CD-07-EA], 15I1054-34RE1[CD-07-EA]

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:**Benzidine**

15I1054-01[SS-43-EA-0-2], 15I1054-02[SS-44-EA-0-2], 15I1054-03[SS-45-EA-0-2], 15I1054-04[SS-46-EA-0-2], 15I1054-05[SS-47-EA-0-1], 15I1054-06[SS-48-EA-0-1], 15I1054-07[SS-49-EA-0-2], 15I1054-08[SS-50-EA-0-2], 15I1054-09[SS-51-EA-0-1], 15I1054-10[SS-52-EA-0-1], 15I1054-11[SS-53-EA-0-1], 15I1054-12[SS-54-EA-0-2], 15I1054-13[SS-55-EA-0-2], 15I1054-14[SS-56-EA-0-1], 15I1054-15[SS-57-EA-0-1], 15I1054-16[SS-58-EA-0-1], 15I1054-17[SS-59-EA-0-1], 15I1054-18[SS-60-EA-0-1], 15I1054-19[SS-61-EA-0-1], 15I1054-20[SS-62-EA-0-1], 15I1054-21[SS-63-EA-0-1], 15I1054-22[SS-64-EA-0-1], 15I1054-23[SS-65-EA-0-1], 15I1054-26[DUP-01], 15I1054-27[DUP-02], 15I1054-28[CD-01-EA], 15I1054-29[CD-02-EA], 15I1054-29RE1[CD-02-EA], 15I1054-30[CD-03-EA], 15I1054-30RE1[CD-03-EA], 15I1054-31[CD-04-EA], 15I1054-31RE1[CD-04-EA], 15I1054-32[CD-05-EA], 15I1054-33[CD-06-EA], 15I1054-34[CD-07-EA], 15I1054-34RE1[CD-07-EA], B131500-BLK1, B131500-BS1, B131500-BSD1, B131500-MS1, B131500-MSD1, B131546-BLK1, B131546-BS1, B131546-BSD1, B131546-MS1, B131546-MSD1, B131648-BLK1, B131648-BS1, B131648-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,2,4,5-Tetrachlorobenzene**

15I1054-24[RB-092215], 15I1054-25[RB-092315], B131595-BLK1, B131595-BS1, B131595-BSD1

Aniline

15I1054-24[RB-092215], 15I1054-25[RB-092315], B131595-BLK1, B131595-BS1, B131595-BSD1

Benzidine

15I1054-01[SS-43-EA-0-2], 15I1054-02[SS-44-EA-0-2], 15I1054-03[SS-45-EA-0-2], 15I1054-04[SS-46-EA-0-2], 15I1054-05[SS-47-EA-0-1], 15I1054-06[SS-48-EA-0-1], 15I1054-07[SS-49-EA-0-2], 15I1054-08[SS-50-EA-0-2], 15I1054-09[SS-51-EA-0-1], 15I1054-10[SS-52-EA-0-1], 15I1054-11[SS-53-EA-0-1], 15I1054-12[SS-54-EA-0-2], 15I1054-13[SS-55-EA-0-2], 15I1054-14[SS-56-EA-0-1], 15I1054-15[SS-57-EA-0-1], 15I1054-16[SS-58-EA-0-1], 15I1054-17[SS-59-EA-0-1], 15I1054-18[SS-60-EA-0-1], 15I1054-19[SS-61-EA-0-1], 15I1054-20[SS-62-EA-0-1], 15I1054-21[SS-63-EA-0-1], 15I1054-22[SS-64-EA-0-1], 15I1054-23[SS-65-EA-0-1], 15I1054-24[RB-092215], 15I1054-25[RB-092315], 15I1054-26[DUP-01], 15I1054-27[DUP-02], 15I1054-28[CD-01-EA], 15I1054-29[CD-02-EA], 15I1054-29RE1[CD-02-EA], 15I1054-30[CD-03-EA], 15I1054-30RE1[CD-03-EA], 15I1054-31[CD-04-EA], 15I1054-31RE1[CD-04-EA], 15I1054-32[CD-05-EA], 15I1054-33[CD-06-EA], 15I1054-34[CD-07-EA], 15I1054-34RE1[CD-07-EA], B131500-BLK1, B131500-BS1, B131500-BSD1, B131500-MS1, B131500-MSD1, B131546-BLK1, B131546-BS1, B131546-BSD1, B131546-MS1, B131546-MSD1, B131595-BLK1, B131595-BS1, B131595-BSD1, B131648-BLK1, B131648-BS1, B131648-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**Pentachloronitrobenzene**

15I1054-01[SS-43-EA-0-2], 15I1054-02[SS-44-EA-0-2], 15I1054-03[SS-45-EA-0-2], 15I1054-04[SS-46-EA-0-2], 15I1054-05[SS-47-EA-0-1], 15I1054-06[SS-48-EA-0-1], 15I1054-07[SS-49-EA-0-2], 15I1054-08[SS-50-EA-0-2], 15I1054-09[SS-51-EA-0-1], 15I1054-10[SS-52-EA-0-1], 15I1054-11[SS-53-EA-0-1], 15I1054-12[SS-54-EA-0-2], 15I1054-13[SS-55-EA-0-2], 15I1054-14[SS-56-EA-0-1], 15I1054-16[SS-58-EA-0-1], 15I1054-17[SS-59-EA-0-1], 15I1054-18[SS-60-EA-0-1], 15I1054-19[SS-61-EA-0-1], 15I1054-20[SS-62-EA-0-1], 15I1054-21[SS-63-EA-0-1], 15I1054-22[SS-64-EA-0-1], 15I1054-23[SS-65-EA-0-1], 15I1054-24[RB-092215], 15I1054-25[RB-092315], 15I1054-26[DUP-01], 15I1054-27[DUP-02], 15I1054-28[CD-01-EA], 15I1054-29[CD-02-EA], 15I1054-29RE1[CD-02-EA], 15I1054-30[CD-03-EA], 15I1054-30RE1[CD-03-EA], 15I1054-31[CD-04-EA], 15I1054-31RE1[CD-04-EA], 15I1054-32[CD-05-EA], 15I1054-33[CD-06-EA], 15I1054-34[CD-07-EA], 15I1054-34RE1[CD-07-EA], B131500-BLK1, B131500-BS1, B131500-BSD1, B131500-MS1, B131500-MSD1, B131546-BLK1, B131546-BS1, B131546-BSD1, B131546-MS1, B131546-MSD1, B131595-BLK1, B131595-BS1, B131595-BSD1, B131648-BLK1, B131648-BS1, B131648-BSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

15I1054-24[RB-092215], 15I1054-25[RB-092315], B131595-BLK1, B131595-BS1, B131595-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Di-n-octylphthalate**

15I1054-19[SS-61-EA-0-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-43-EA-0-2

Sampled: 9/22/2015 11:07

Sample ID: 1511054-01

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Acrylonitrile	ND	0.0070	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Bromomethane	ND	0.012	mg/Kg dry	1	R-05	SW-846 8260C	9/28/15	9/28/15 10:13	MFF
2-Butanone (MEK)	ND	0.047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Carbon Disulfide	ND	0.0070	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Chloroform	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
trans-1,4-Dichloro-2-butene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,1-Dichloroethylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Diethyl Ether	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-43-EA-0-2

Sampled: 9/22/2015 11:07

Sample ID: 1511054-01

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Naphthalene	ND	0.0047	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 10:13	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1	L-04, V-05	SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,3,5-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
m+p Xylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	9/28/15 10:13
Toluene-d8	102	70-130	9/28/15 10:13
4-Bromofluorobenzene	93.6	70-130	9/28/15 10:13

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-43-EA-0-2

Sampled: 9/22/2015 11:07

Sample ID: 1511054-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.26	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Acenaphthylene	0.47	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Aniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Anthracene	0.84	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Benzidine	ND	0.79	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Benzo(a)anthracene	7.9	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:04	CMR
Benzo(a)pyrene	8.6	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:04	CMR
Benzo(b)fluoranthene	14	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:04	CMR
Benzo(g,h,i)perylene	5.2	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:04	CMR
Benzo(k)fluoranthene	4.5	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Carbazole	0.50	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
4-Chloroaniline	ND	0.79	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
4-Chloro-3-methylphenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
4-Chlorophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Chrysene	9.6	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:04	CMR
Dibenz(a,h)anthracene	2.6	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Dibenzofuran	0.44	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Fluoranthene	11	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:04	CMR
Fluorene	0.20	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-43-EA-0-2

Sampled: 9/22/2015 11:07

Sample ID: 1511054-01

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Hexachlorocyclopentadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Indeno(1,2,3-cd)pyrene	5.9	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:04	CMR
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
1-Methylnaphthalene	0.91	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2-Methylnaphthalene	1.1	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Naphthalene	0.85	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
3-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
4-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
N-Nitrosodimethylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
N-Nitrosodiphenylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
N-Nitrosodi-n-propylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Pentachloronitrobenzene	ND	0.41	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Phenanthrene	4.6	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
Pyrene	12	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:04	CMR
Pyridine	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 12:45	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	70.5	30-130	9/28/15 12:45
Phenol-d6	70.2	30-130	9/28/15 12:45
Nitrobenzene-d5	69.1	30-130	9/28/15 12:45
2-Fluorobiphenyl	81.0	30-130	9/28/15 12:45
2,4,6-Tribromophenol	74.3	30-130	9/28/15 12:45
p-Terphenyl-d14	89.3	30-130	9/28/15 12:45

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-43-EA-0-2

Sampled: 9/22/2015 11:07

Sample ID: 1511054-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7900	3.0		mg/Kg dry	1	B-07, B	SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Antimony	ND	3.0		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 17:07	MJH
Arsenic	19	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Barium	94	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Beryllium	0.52	0.30		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Cadmium	1.5	0.30		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Calcium	25000	9.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Chromium	41	0.61		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Cobalt	5.7	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Copper	380	0.61		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Iron	30000	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:41	AME
Lead	330	0.91		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Magnesium	1800	9.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Manganese	420	0.61		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:41	AME
Mercury	0.25	0.027		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:31	SCB
Nickel	20	0.61		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Potassium	650	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:41	AME
Selenium	ND	6.1	3.7	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Silver	1.7	0.61		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Sodium	ND	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:41	AME
Thallium	ND	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Vanadium	36	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH
Zinc	280	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:01	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-43-EA-0-2

Sampled: 9/22/2015 11:07

Sample ID: 1511054-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-44-EA-0-2

Sampled: 9/22/2015 10:31

Sample ID: 1511054-02

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Acrylonitrile	ND	0.0069	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	R-05	SW-846 8260C	9/28/15	9/28/15 10:45	MFF
2-Butanone (MEK)	ND	0.046	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
tert-Butyl Alcohol (TBA)	ND	0.046	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Carbon Disulfide	ND	0.0069	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Chloroform	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
trans-1,4-Dichloro-2-butene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,1-Dichloroethylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Diethyl Ether	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-44-EA-0-2

Sampled: 9/22/2015 10:31

Sample ID: 1511054-02

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Naphthalene	ND	0.0046	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 10:45	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1	L-04, V-05	SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,3,5-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
m+p Xylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 10:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	108	70-130	9/28/15 10:45
Toluene-d8	103	70-130	9/28/15 10:45
4-Bromofluorobenzene	96.0	70-130	9/28/15 10:45

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-44-EA-0-2

Sampled: 9/22/2015 10:31

Sample ID: 1511054-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Acetophenone	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Aniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Benzidine	ND	0.82	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Benzo(a)anthracene	0.77	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Benzo(a)pyrene	0.75	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Benzo(b)fluoranthene	1.3	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Benzo(g,h,i)perylene	0.61	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Benzo(k)fluoranthene	0.42	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Butylbenzylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
4-Chloroaniline	ND	0.82	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
4-Chloro-3-methylphenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
4-Chlorophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Chrysene	0.95	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Dibenz(a,h)anthracene	0.22	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
1,2-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
1,3-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
1,4-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Dimethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2,4-Dinitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Di-n-octylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Fluoranthene	1.1	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-44-EA-0-2

Sampled: 9/22/2015 10:31

Sample ID: 1511054-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Hexachlorocyclopentadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Indeno(1,2,3-cd)pyrene	0.70	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
1-Methylnaphthalene	0.31	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2-Methylnaphthalene	0.42	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Naphthalene	0.32	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
3-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
4-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
4-Nitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
N-Nitrosodimethylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
N-Nitrosodiphenylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
N-Nitrosodi-n-propylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Pentachloronitrobenzene	ND	0.42	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Phenanthrene	0.68	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Pyrene	1.0	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Pyridine	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:07	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		72.8	30-130					9/28/15 13:07	
Phenol-d6		70.2	30-130					9/28/15 13:07	
Nitrobenzene-d5		66.4	30-130					9/28/15 13:07	
2-Fluorobiphenyl		78.0	30-130					9/28/15 13:07	
2,4,6-Tribromophenol		78.2	30-130					9/28/15 13:07	
p-Terphenyl-d14		83.0	30-130					9/28/15 13:07	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-44-EA-0-2

Sampled: 9/22/2015 10:31

Sample ID: 1511054-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5500	3.0		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Antimony	ND	2.9		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 17:23	MJH
Arsenic	7.5	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Barium	67	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Beryllium	0.39	0.30		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Cadmium	0.64	0.30		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Calcium	22000	8.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Chromium	9.8	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Cobalt	3.5	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Copper	110	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Iron	14000	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:45	AME
Lead	190	0.89		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Magnesium	1100	8.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Manganese	270	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:45	AME
Mercury	0.34	0.031		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:32	SCB
Nickel	8.6	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Potassium	510	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:45	AME
Selenium	ND	5.9	3.6	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Silver	1.2	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Sodium	ND	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:45	AME
Thallium	ND	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Vanadium	14	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH
Zinc	160	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:05	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-44-EA-0-2

Sampled: 9/22/2015 10:31

Sample ID: 1511054-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.7		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-45-EA-0-2

Sampled: 9/22/2015 10:52

Sample ID: 1511054-03

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Acrylonitrile	ND	0.0071	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Benzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Bromobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Bromochloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Bromodichloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Bromoform	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Bromomethane	ND	0.012	mg/Kg dry	1	R-05	SW-846 8260C	9/28/15	9/28/15 11:32	MFF
2-Butanone (MEK)	ND	0.047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
n-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
sec-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
tert-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Carbon Disulfide	ND	0.0071	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Carbon Tetrachloride	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Chlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Chloroethane	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Chloroform	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
2-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
4-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Dibromomethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,2-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,3-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,4-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
trans-1,4-Dichloro-2-butene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,1-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,2-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,1-Dichloroethylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
cis-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
trans-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
2,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,1-Dichloropropene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Diethyl Ether	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-45-EA-0-2

Sampled: 9/22/2015 10:52

Sample ID: 1511054-03

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Ethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Hexachlorobutadiene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
2-Hexanone (MBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Isopropylbenzene (Cumene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Methylene Chloride	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Naphthalene	ND	0.0047	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 11:32	MFF
n-Propylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Styrene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Tetrachloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Toluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,2,3-Trichlorobenzene	ND	0.0024	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,2,4-Trichlorobenzene	ND	0.0024	mg/Kg dry	1	L-04, V-05	SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,3,5-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,1,1-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,1,2-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Trichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,2,3-Trichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,2,4-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
1,3,5-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
m+p Xylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF
o-Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 11:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	87.0	70-130	9/28/15 11:32
Toluene-d8	101	70-130	9/28/15 11:32
4-Bromofluorobenzene	96.6	70-130	9/28/15 11:32

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-45-EA-0-2

Sampled: 9/22/2015 10:52

Sample ID: 1511054-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Aniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Benzidine	ND	0.77	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
4-Chloroaniline	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
4-Chloro-3-methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-45-EA-0-2

Sampled: 9/22/2015 10:52

Sample ID: 1511054-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
1-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
3-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
N-Nitrosodimethylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:29	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	87.3	30-130	9/28/15 13:29
Phenol-d6	82.6	30-130	9/28/15 13:29
Nitrobenzene-d5	76.3	30-130	9/28/15 13:29
2-Fluorobiphenyl	92.5	30-130	9/28/15 13:29
2,4,6-Tribromophenol	97.4	30-130	9/28/15 13:29
p-Terphenyl-d14	98.5	30-130	9/28/15 13:29

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-45-EA-0-2

Sampled: 9/22/2015 10:52

Sample ID: 1511054-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	12000	3.0		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Antimony	ND	2.8		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 17:27	MJH
Arsenic	3.3	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Barium	110	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Beryllium	0.72	0.30		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Cadmium	ND	0.30		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Calcium	11000	9.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Chromium	18	0.61		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Cobalt	8.6	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Copper	14	0.61		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Iron	20000	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:51	AME
Lead	8.7	0.91		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Magnesium	6300	9.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Manganese	430	0.61		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:51	AME
Mercury	ND	0.030		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:33	SCB
Nickel	16	0.61		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Potassium	2100	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:51	AME
Selenium	ND	6.1	3.7	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Silver	1.3	0.61		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Sodium	220	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:51	AME
Thallium	ND	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Vanadium	29	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH
Zinc	52	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:25	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-45-EA-0-2

Sampled: 9/22/2015 10:52

Sample ID: 1511054-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-46-EA-0-2

Sampled: 9/22/2015 11:05

Sample ID: 1511054-04

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Acrylonitrile	ND	0.0067	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Bromochloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	R-05	SW-846 8260C	9/28/15	9/28/15 12:04	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
tert-Butyl Alcohol (TBA)	ND	0.045	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Carbon Disulfide	ND	0.0067	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Diethyl Ether	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-46-EA-0-2

Sampled: 9/22/2015 11:05

Sample ID: 1511054-04

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 12:04	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1	L-04, V-05	SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,3,5-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	9/28/15 12:04
Toluene-d8	101	70-130	9/28/15 12:04
4-Bromofluorobenzene	95.6	70-130	9/28/15 12:04

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-46-EA-0-2

Sampled: 9/22/2015 11:05

Sample ID: 1511054-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	8.0	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:27	CMR
Acenaphthylene	0.58	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Aniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Anthracene	25	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:27	CMR
Benzidine	ND	0.77	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Benzo(a)anthracene	76	9.9	mg/Kg dry	50		SW-846 8270D	9/25/15	9/29/15 14:50	CMR
Benzo(a)pyrene	52	9.9	mg/Kg dry	50		SW-846 8270D	9/25/15	9/29/15 14:50	CMR
Benzo(b)fluoranthene	67	9.9	mg/Kg dry	50		SW-846 8270D	9/25/15	9/29/15 14:50	CMR
Benzo(g,h,i)perylene	23	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:27	CMR
Benzo(k)fluoranthene	29	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:27	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Carbazole	21	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:27	CMR
4-Chloroaniline	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
4-Chloro-3-methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Chrysene	72	9.9	mg/Kg dry	50		SW-846 8270D	9/25/15	9/29/15 14:50	CMR
Dibenz(a,h)anthracene	9.8	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:27	CMR
Dibenzofuran	4.6	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Fluoranthene	190	9.9	mg/Kg dry	50		SW-846 8270D	9/25/15	9/29/15 14:50	CMR
Fluorene	8.5	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:27	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-46-EA-0-2

Sampled: 9/22/2015 11:05

Sample ID: 1511054-04

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Indeno(1,2,3-cd)pyrene	28	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:27	CMR
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
1-Methylnaphthalene	1.0	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
2-Methylnaphthalene	1.5	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Naphthalene	5.3	2.0	mg/Kg dry	10		SW-846 8270D	9/25/15	9/29/15 14:27	CMR
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
3-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
N-Nitrosodimethylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Phenanthrene	110	9.9	mg/Kg dry	50		SW-846 8270D	9/25/15	9/29/15 14:50	CMR
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
Pyrene	170	9.9	mg/Kg dry	50		SW-846 8270D	9/25/15	9/29/15 14:50	CMR
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 13:51	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	85.3	30-130	9/28/15 13:51
Phenol-d6	78.4	30-130	9/28/15 13:51
Nitrobenzene-d5	76.7	30-130	9/28/15 13:51
2-Fluorobiphenyl	81.4	30-130	9/28/15 13:51
2,4,6-Tribromophenol	84.7	30-130	9/28/15 13:51
p-Terphenyl-d14	84.7	30-130	9/28/15 13:51

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-46-EA-0-2

Sampled: 9/22/2015 11:05

Sample ID: 1511054-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6800	2.9		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Antimony	ND	2.9		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 17:31	MJH
Arsenic	35	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Barium	470	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Beryllium	0.38	0.29		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Cadmium	0.75	0.29		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Calcium	170000	88		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 14:16	AME
Chromium	8.2	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Cobalt	ND	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Copper	8.0	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Iron	8000	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:17	AME
Lead	60	0.88		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Magnesium	8100	8.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Manganese	220	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:17	AME
Mercury	0.049	0.029		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:35	SCB
Nickel	6.2	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Potassium	1500	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:17	AME
Selenium	ND	5.9	3.5	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Silver	ND	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Sodium	260	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:17	AME
Thallium	ND	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Vanadium	18	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH
Zinc	320	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:29	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-46-EA-0-2

Sampled: 9/22/2015 11:05

Sample ID: 1511054-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-47-EA-0-1

Sampled: 9/22/2015 11:25

Sample ID: 1511054-05

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Acrylonitrile	ND	0.0064	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	R-05	SW-846 8260C	9/28/15	9/28/15 12:36	MFF
2-Butanone (MEK)	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
tert-Butyl Alcohol (TBA)	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Carbon Disulfide	ND	0.0064	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Chloroform	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,1-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Diethyl Ether	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-47-EA-0-1

Sampled: 9/22/2015 11:25

Sample ID: 1511054-05

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Naphthalene	ND	0.0043	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 12:36	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	L-04, V-05	SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,3,5-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
m+p Xylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 12:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	9/28/15 12:36
Toluene-d8	101	70-130	9/28/15 12:36
4-Bromofluorobenzene	94.9	70-130	9/28/15 12:36

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-47-EA-0-1

Sampled: 9/22/2015 11:25

Sample ID: 1511054-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Acetophenone	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Aniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Benzidine	ND	0.81	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Benzo(a)anthracene	0.29	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Benzo(a)pyrene	0.31	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Benzo(b)fluoranthene	0.41	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Butylbenzylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
4-Chloroaniline	ND	0.81	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
4-Chloro-3-methylphenol	ND	0.81	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
4-Chlorophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Chrysene	0.32	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
1,2-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
1,3-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
1,4-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Dimethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2,4-Dinitrophenol	ND	0.81	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Di-n-octylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Fluoranthene	0.46	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-47-EA-0-1

Sampled: 9/22/2015 11:25

Sample ID: 1511054-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Hexachlorocyclopentadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
1-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
3-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
4-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
4-Nitrophenol	ND	0.81	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
N-Nitrosodimethylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
N-Nitrosodiphenylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
N-Nitrosodi-n-propylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Pentachloronitrobenzene	ND	0.42	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Pyrene	0.50	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
Pyridine	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:42	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	69.5	30-130	9/29/15 13:42
Phenol-d6	67.5	30-130	9/29/15 13:42
Nitrobenzene-d5	62.3	30-130	9/29/15 13:42
2-Fluorobiphenyl	71.6	30-130	9/29/15 13:42
2,4,6-Tribromophenol	72.4	30-130	9/29/15 13:42
p-Terphenyl-d14	88.0	30-130	9/29/15 13:42

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-47-EA-0-1

Sampled: 9/22/2015 11:25

Sample ID: 1511054-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4700	2.8		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Antimony	ND	3.1		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 17:35	MJH
Arsenic	31	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Barium	58	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Beryllium	0.32	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Cadmium	0.37	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Calcium	160000	84		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 14:21	AME
Chromium	7.7	0.56		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Cobalt	3.5	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Copper	17	0.56		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Iron	12000	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:22	AME
Lead	76	0.84		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Magnesium	7900	8.4		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Manganese	410	0.56		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:22	AME
Mercury	0.60	0.14		mg/Kg dry	5		SW-846 7471B	9/25/15	9/29/15 15:35	SCB
Nickel	7.2	0.56		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Potassium	1100	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:22	AME
Selenium	ND	5.6	3.4	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Silver	ND	0.56		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Sodium	150	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:22	AME
Thallium	ND	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Vanadium	9.9	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH
Zinc	98	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:33	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-47-EA-0-1

Sampled: 9/22/2015 11:25

Sample ID: 1511054-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-48-EA-0-1

Sampled: 9/22/2015 11:40

Sample ID: 1511054-06

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Acrylonitrile	ND	0.0061	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Bromomethane	ND	0.010	mg/Kg dry	1	R-05	SW-846 8260C	9/28/15	9/28/15 13:08	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
tert-Butyl Alcohol (TBA)	ND	0.041	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Carbon Disulfide	ND	0.0061	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-48-EA-0-1

Sampled: 9/22/2015 11:40

Sample ID: 1511054-06

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 13:08	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	L-04, V-05	SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:08	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	9/28/15 13:08
Toluene-d8	102	70-130	9/28/15 13:08
4-Bromofluorobenzene	96.6	70-130	9/28/15 13:08

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-48-EA-0-1

Sampled: 9/22/2015 11:40

Sample ID: 1511054-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Benzidine	ND	0.72	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Benzo(a)anthracene	0.57	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Benzo(a)pyrene	0.73	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Benzo(b)fluoranthene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Benzo(g,h,i)perylene	0.49	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Benzo(k)fluoranthene	0.37	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
4-Chloroaniline	ND	0.72	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
4-Chloro-3-methylphenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Chrysene	0.86	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Fluoranthene	0.64	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-48-EA-0-1

Sampled: 9/22/2015 11:40

Sample ID: 1511054-06

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Hexachlorocyclopentadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Indeno(1,2,3-cd)pyrene	0.50	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
1-Methylnaphthalene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2-Methylnaphthalene	0.40	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Naphthalene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
4-Nitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
N-Nitrosodimethylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
N-Nitrosodiphenylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Phenanthrene	0.47	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Pyrene	0.73	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:35	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	72.5	30-130	9/28/15 14:35
Phenol-d6	69.0	30-130	9/28/15 14:35
Nitrobenzene-d5	65.5	30-130	9/28/15 14:35
2-Fluorobiphenyl	77.8	30-130	9/28/15 14:35
2,4,6-Tribromophenol	77.6	30-130	9/28/15 14:35
p-Terphenyl-d14	91.9	30-130	9/28/15 14:35

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-48-EA-0-1

Sampled: 9/22/2015 11:40

Sample ID: 1511054-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2400	2.5		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Antimony	ND	2.5		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 17:39	MJH
Arsenic	39	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Barium	43	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Beryllium	ND	0.25		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Cadmium	0.50	0.25		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Calcium	180000	75		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 14:25	AME
Chromium	14	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Cobalt	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Copper	39	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Iron	15000	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:28	AME
Lead	76	0.75		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Magnesium	2700	7.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Manganese	390	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:28	AME
Mercury	0.093	0.026		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:38	SCB
Nickel	31	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Potassium	470	100		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:28	AME
Selenium	ND	5.0	3.0	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Silver	ND	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Sodium	140	100		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:28	AME
Thallium	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Vanadium	8.9	1.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH
Zinc	66	1.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:37	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-48-EA-0-1

Sampled: 9/22/2015 11:40

Sample ID: 1511054-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.3		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-49-EA-0-2

Sampled: 9/22/2015 12:10

Sample ID: 1511054-07

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Acrylonitrile	ND	0.0063	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	R-05	SW-846 8260C	9/28/15	9/28/15 13:56	MFF
2-Butanone (MEK)	ND	0.042	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
tert-Butyl Alcohol (TBA)	ND	0.042	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Carbon Disulfide	ND	0.0063	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Chloroform	ND	0.0042	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
trans-1,4-Dichloro-2-butene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,1-Dichloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Diethyl Ether	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-49-EA-0-2

Sampled: 9/22/2015 12:10

Sample ID: 1511054-07

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Naphthalene	ND	0.0042	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 13:56	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	L-04, V-05	SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,3,5-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
m+p Xylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 13:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	86.4	70-130	9/28/15 13:56
Toluene-d8	101	70-130	9/28/15 13:56
4-Bromofluorobenzene	96.9	70-130	9/28/15 13:56

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-49-EA-0-2

Sampled: 9/22/2015 12:10

Sample ID: 1511054-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Acetophenone	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Aniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Benzidine	ND	0.75	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Benzo(a)anthracene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Benzo(a)pyrene	2.4	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Benzo(b)fluoranthene	2.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Benzo(g,h,i)perylene	1.5	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Benzo(k)fluoranthene	0.94	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
4-Chloroaniline	ND	0.75	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
4-Chloro-3-methylphenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
4-Chlorophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Chrysene	3.1	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Dibenz(a,h)anthracene	0.54	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
1,2-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
1,3-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
1,4-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
4,6-Dinitro-2-methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2,4-Dinitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Fluoranthene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-49-EA-0-2

Sampled: 9/22/2015 12:10

Sample ID: 1511054-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Indeno(1,2,3-cd)pyrene	1.4	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
1-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
3-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
4-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
4-Nitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
N-Nitrosodimethylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
N-Nitrosodiphenylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
N-Nitrosodi-n-propylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Pentachloronitrobenzene	ND	0.39	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Phenanthrene	0.95	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Pyrene	2.1	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 14:58	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		68.6	30-130					9/28/15 14:58	
Phenol-d6		68.1	30-130					9/28/15 14:58	
Nitrobenzene-d5		66.8	30-130					9/28/15 14:58	
2-Fluorobiphenyl		81.9	30-130					9/28/15 14:58	
2,4,6-Tribromophenol		81.5	30-130					9/28/15 14:58	
p-Terphenyl-d14		97.4	30-130					9/28/15 14:58	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-49-EA-0-2

Sampled: 9/22/2015 12:10

Sample ID: 1511054-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3800	2.7		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Antimony	ND	2.7		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 17:43	MJH
Arsenic	6.3	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Barium	49	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Beryllium	ND	0.27		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Cadmium	0.37	0.27		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Calcium	17000	8.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Chromium	30	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Cobalt	5.5	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Copper	130	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Iron	22000	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:33	AME
Lead	69	0.82		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Magnesium	1100	8.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Manganese	510	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:33	AME
Mercury	0.12	0.027		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:43	SCB
Nickel	20	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Potassium	650	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:33	AME
Selenium	ND	5.4	3.3	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Silver	1.4	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Sodium	150	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:33	AME
Thallium	ND	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Vanadium	11	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH
Zinc	91	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:41	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-49-EA-0-2

Sampled: 9/22/2015 12:10

Sample ID: 1511054-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-50-EA-0-2

Sampled: 9/22/2015 12:36

Sample ID: 1511054-08

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Acrylonitrile	ND	0.0071	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Benzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Bromobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Bromochloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Bromodichloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Bromoform	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
2-Butanone (MEK)	ND	0.047	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
n-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
sec-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
tert-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Carbon Disulfide	ND	0.0071	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Carbon Tetrachloride	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Chlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Chloroethane	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Chloroform	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
2-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
4-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Dibromomethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,2-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,3-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,4-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
trans-1,4-Dichloro-2-butene	ND	0.0047	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,1-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,2-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,1-Dichloroethylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
cis-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
trans-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
2,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,1-Dichloropropene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Diethyl Ether	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-50-EA-0-2

Sampled: 9/22/2015 12:36

Sample ID: 1511054-08

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Ethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Hexachlorobutadiene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
2-Hexanone (MBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Isopropylbenzene (Cumene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Methylene Chloride	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Naphthalene	ND	0.0047	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 15:12	MFF
n-Propylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Styrene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Tetrachloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Toluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,2,3-Trichlorobenzene	ND	0.0024	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,2,4-Trichlorobenzene	ND	0.0024	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,3,5-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,1,1-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,1,2-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Trichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,2,3-Trichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,2,4-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
1,3,5-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
m+p Xylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF
o-Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	9/29/15 15:12
Toluene-d8	101	70-130	9/29/15 15:12
4-Bromofluorobenzene	98.0	70-130	9/29/15 15:12

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-50-EA-0-2

Sampled: 9/22/2015 12:36

Sample ID: 1511054-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Benzidine	ND	0.73	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Benzo(a)anthracene	0.57	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Benzo(a)pyrene	0.71	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Benzo(b)fluoranthene	0.93	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Benzo(g,h,i)perylene	0.42	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Benzo(k)fluoranthene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
4-Chloroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
4-Chloro-3-methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Chrysene	0.85	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Fluoranthene	0.58	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-50-EA-0-2

Sampled: 9/22/2015 12:36

Sample ID: 1511054-08

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Indeno(1,2,3-cd)pyrene	0.42	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
1-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
N-Nitrosodimethylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Phenanthrene	0.29	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Pyrene	0.69	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:20	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		91.3	30-130					9/28/15 15:20	
Phenol-d6		90.8	30-130					9/28/15 15:20	
Nitrobenzene-d5		85.9	30-130					9/28/15 15:20	
2-Fluorobiphenyl		103	30-130					9/28/15 15:20	
2,4,6-Tribromophenol		107	30-130					9/28/15 15:20	
p-Terphenyl-d14		124	30-130					9/28/15 15:20	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-50-EA-0-2

Sampled: 9/22/2015 12:36

Sample ID: 1511054-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2000	2.6		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Antimony	ND	2.7		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 17:47	MJH
Arsenic	50	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Barium	41	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Beryllium	ND	0.26		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Cadmium	ND	0.26		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Calcium	260000	79		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 14:34	AME
Chromium	10	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Cobalt	2.7	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Copper	45	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Iron	12000	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:39	AME
Lead	46	0.79		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Magnesium	6100	7.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Manganese	270	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:39	AME
Mercury	0.10	0.027		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:45	SCB
Nickel	12	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Potassium	480	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:39	AME
Selenium	ND	5.3	3.2	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Silver	ND	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Sodium	110	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:39	AME
Thallium	ND	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Vanadium	6.4	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH
Zinc	39	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:45	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-50-EA-0-2

Sampled: 9/22/2015 12:36

Sample ID: 1511054-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.0		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-51-EA-0-1

Sampled: 9/22/2015 11:52

Sample ID: 1511054-09

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Acrylonitrile	ND	0.0058	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Bromomethane	ND	0.0096	mg/Kg dry	1	R-05	SW-846 8260C	9/28/15	9/28/15 15:17	MFF
2-Butanone (MEK)	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
tert-Butyl Alcohol (TBA)	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Carbon Disulfide	ND	0.0058	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Chlorodibromomethane	ND	0.00096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Chloroform	ND	0.0038	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Chloromethane	ND	0.0096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,2-Dibromoethane (EDB)	ND	0.00096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
trans-1,4-Dichloro-2-butene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,1-Dichloroethylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,3-Dichloropropane	ND	0.00096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
cis-1,3-Dichloropropene	ND	0.00096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
trans-1,3-Dichloropropene	ND	0.00096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Diethyl Ether	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-51-EA-0-1

Sampled: 9/22/2015 11:52

Sample ID: 1511054-09

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,4-Dioxane	ND	0.096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Naphthalene	ND	0.0038	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 15:17	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.00096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Tetrahydrofuran	ND	0.0096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1	L-04, V-05	SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,3,5-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
Vinyl Chloride	ND	0.0096	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
m+p Xylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	9/28/15 15:17
Toluene-d8	102	70-130	9/28/15 15:17
4-Bromofluorobenzene	97.7	70-130	9/28/15 15:17

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-51-EA-0-1

Sampled: 9/22/2015 11:52

Sample ID: 1511054-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Benzidine	ND	0.72	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Benzo(b)fluoranthene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
4-Chloroaniline	ND	0.72	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
4-Chloro-3-methylphenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Fluoranthene	0.19	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-51-EA-0-1

Sampled: 9/22/2015 11:52

Sample ID: 1511054-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Hexachlorocyclopentadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
1-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
4-Nitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
N-Nitrosodimethylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
N-Nitrosodiphenylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Pyrene	0.19	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 15:42	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	78.5	30-130	9/28/15 15:42
Phenol-d6	75.7	30-130	9/28/15 15:42
Nitrobenzene-d5	70.2	30-130	9/28/15 15:42
2-Fluorobiphenyl	86.6	30-130	9/28/15 15:42
2,4,6-Tribromophenol	93.2	30-130	9/28/15 15:42
p-Terphenyl-d14	100	30-130	9/28/15 15:42

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-51-EA-0-1

Sampled: 9/22/2015 11:52

Sample ID: 1511054-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2400	2.6		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Antimony	ND	2.7		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 17:50	MJH
Arsenic	ND	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Barium	26	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Beryllium	ND	0.26		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Cadmium	0.59	0.26		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Calcium	17000	7.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Chromium	7.1	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Cobalt	ND	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Copper	10	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Iron	13000	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:44	AME
Lead	26	0.79		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Magnesium	1100	7.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Manganese	110	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:44	AME
Mercury	0.053	0.026		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:46	SCB
Nickel	3.4	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Potassium	250	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:44	AME
Selenium	ND	5.3	3.2	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Silver	1.0	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Sodium	ND	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:44	AME
Thallium	ND	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Vanadium	6.9	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH
Zinc	270	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:49	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Sampled: 9/22/2015 11:52

Field Sample #: SS-51-EA-0-1

Sample ID: 1511054-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.2		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-52-EA-0-1

Sampled: 9/22/2015 13:02

Sample ID: 1511054-10

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Acrylonitrile	ND	0.0059	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Bromomethane	ND	0.0099	mg/Kg dry	1	R-05	SW-846 8260C	9/28/15	9/28/15 15:49	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Carbon Disulfide	ND	0.0059	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Chlorodibromomethane	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Chloromethane	ND	0.0099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,2-Dibromoethane (EDB)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,3-Dichloropropane	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
cis-1,3-Dichloropropene	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
trans-1,3-Dichloropropene	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-52-EA-0-1

Sampled: 9/22/2015 13:02

Sample ID: 1511054-10

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,4-Dioxane	ND	0.099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Naphthalene	ND	0.0040	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 15:49	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,1,2,2-Tetrachloroethane	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Tetrahydrofuran	ND	0.0099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05, L-04	SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
Vinyl Chloride	ND	0.0099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 15:49	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	9/28/15 15:49
Toluene-d8	102	70-130	9/28/15 15:49
4-Bromofluorobenzene	96.8	70-130	9/28/15 15:49

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-52-EA-0-1

Sampled: 9/22/2015 13:02

Sample ID: 1511054-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Benzidine	ND	0.73	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Benzo(a)anthracene	2.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Benzo(a)pyrene	3.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Benzo(b)fluoranthene	4.2	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Benzo(g,h,i)perylene	1.8	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Benzo(k)fluoranthene	1.5	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
4-Chloroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
4-Chloro-3-methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Chrysene	2.7	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Dibenz(a,h)anthracene	0.51	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Fluoranthene	2.4	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-52-EA-0-1

Sampled: 9/22/2015 13:02

Sample ID: 1511054-10

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Indeno(1,2,3-cd)pyrene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
1-Methylnaphthalene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2-Methylnaphthalene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Naphthalene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
N-Nitrosodimethylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Phenanthrene	0.86	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Pyrene	2.8	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:04	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	79.1	30-130	9/28/15 16:04
Phenol-d6	74.4	30-130	9/28/15 16:04
Nitrobenzene-d5	73.7	30-130	9/28/15 16:04
2-Fluorobiphenyl	83.8	30-130	9/28/15 16:04
2,4,6-Tribromophenol	79.9	30-130	9/28/15 16:04
p-Terphenyl-d14	96.4	30-130	9/28/15 16:04

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-52-EA-0-1

Sampled: 9/22/2015 13:02

Sample ID: 1511054-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4300	2.8		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Antimony	ND	2.6		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 17:54	MJH
Arsenic	23	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Barium	40	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Beryllium	0.29	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Cadmium	0.60	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Calcium	89000	83		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 14:42	AME
Chromium	23	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Cobalt	3.9	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Copper	69	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Iron	19000	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:50	AME
Lead	110	0.83		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Magnesium	3700	8.3		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Manganese	350	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:50	AME
Mercury	0.14	0.026		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:47	SCB
Nickel	32	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Potassium	650	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:50	AME
Selenium	ND	5.5	3.3	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Silver	ND	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Sodium	130	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 14:50	AME
Thallium	ND	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Vanadium	14	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH
Zinc	200	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:54	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-52-EA-0-1

Sampled: 9/22/2015 13:02

Sample ID: 1511054-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.2		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-53-EA-0-1

Sampled: 9/22/2015 12:59

Sample ID: 1511054-11

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.47	0.099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Acrylonitrile	ND	0.0059	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Bromomethane	ND	0.0099	mg/Kg dry	1	R-05	SW-846 8260C	9/28/15	9/28/15 16:21	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Carbon Disulfide	ND	0.0059	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Chlorodibromomethane	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Chloromethane	ND	0.0099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,2-Dibromoethane (EDB)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,3-Dichloropropane	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
cis-1,3-Dichloropropene	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
trans-1,3-Dichloropropene	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-53-EA-0-1

Sampled: 9/22/2015 12:59

Sample ID: 1511054-11

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,4-Dioxane	ND	0.099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Naphthalene	ND	0.0040	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 16:21	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.00099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Tetrahydrofuran	ND	0.0099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	L-04, V-05	SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
Vinyl Chloride	ND	0.0099	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.7	70-130	9/28/15 16:21
Toluene-d8	101	70-130	9/28/15 16:21
4-Bromofluorobenzene	98.0	70-130	9/28/15 16:21

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-53-EA-0-1

Sampled: 9/22/2015 12:59

Sample ID: 1511054-11

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Benzidine	ND	0.74	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Benzo(a)anthracene	0.57	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Benzo(a)pyrene	0.66	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Benzo(b)fluoranthene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Benzo(g,h,i)perylene	0.45	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Benzo(k)fluoranthene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
4-Chloroaniline	ND	0.74	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
4-Chloro-3-methylphenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Chrysene	0.75	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Fluoranthene	0.78	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-53-EA-0-1

Sampled: 9/22/2015 12:59

Sample ID: 1511054-11

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Indeno(1,2,3-cd)pyrene	0.44	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
1-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
N-Nitrosodimethylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Phenanthrene	0.44	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Pyrene	0.81	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:27	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	73.6	30-130	9/28/15 16:27
Phenol-d6	76.7	30-130	9/28/15 16:27
Nitrobenzene-d5	74.6	30-130	9/28/15 16:27
2-Fluorobiphenyl	92.1	30-130	9/28/15 16:27
2,4,6-Tribromophenol	84.7	30-130	9/28/15 16:27
p-Terphenyl-d14	107	30-130	9/28/15 16:27

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-53-EA-0-1

Sampled: 9/22/2015 12:59

Sample ID: 1511054-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5500	2.8		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Antimony	4.2	2.6		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 17:58	MJH
Arsenic	6.4	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Barium	110	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Beryllium	0.36	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Cadmium	1.2	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Calcium	6800	8.4		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Chromium	35	0.56		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Cobalt	7.9	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Copper	340	0.56		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Iron	60000	28		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 14:46	AME
Lead	290	0.84		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Magnesium	1300	8.4		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Manganese	890	0.56		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 15:00	AME
Mercury	0.35	0.026		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:49	SCB
Nickel	40	0.56		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Potassium	570	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 15:00	AME
Selenium	ND	5.6	3.4	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Silver	3.0	0.56		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Sodium	ND	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 15:00	AME
Thallium	ND	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Vanadium	23	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH
Zinc	240	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 18:58	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-53-EA-0-1

Sampled: 9/22/2015 12:59

Sample ID: 1511054-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-54-EA-0-2

Sampled: 9/22/2015 13:30

Sample ID: 1511054-12

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Acrylonitrile	ND	0.0064	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	R-05	SW-846 8260C	9/28/15	9/28/15 16:53	MFF
2-Butanone (MEK)	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
tert-Butyl Alcohol (TBA)	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Carbon Disulfide	ND	0.0064	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Chloroform	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,1-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Diethyl Ether	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-54-EA-0-2

Sampled: 9/22/2015 13:30

Sample ID: 1511054-12

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Naphthalene	ND	0.0043	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 16:53	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	L-04, V-05	SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,3,5-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
m+p Xylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 16:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.2	70-130	9/28/15 16:53
Toluene-d8	102	70-130	9/28/15 16:53
4-Bromofluorobenzene	97.6	70-130	9/28/15 16:53

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-54-EA-0-2

Sampled: 9/22/2015 13:30

Sample ID: 1511054-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.97	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Anthracene	0.87	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Benzidine	ND	0.74	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Benzo(a)anthracene	5.5	0.76	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 15:13	CMR
Benzo(a)pyrene	8.3	0.76	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 15:13	CMR
Benzo(b)fluoranthene	9.0	0.76	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 15:13	CMR
Benzo(g,h,i)perylene	4.8	0.76	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 15:13	CMR
Benzo(k)fluoranthene	3.3	0.76	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 15:13	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Carbazole	0.66	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
4-Chloroaniline	ND	0.74	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
4-Chloro-3-methylphenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Chrysene	6.6	0.76	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 15:13	CMR
Dibenz(a,h)anthracene	1.3	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Fluoranthene	5.8	0.76	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 15:13	CMR
Fluorene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-54-EA-0-2

Sampled: 9/22/2015 13:30

Sample ID: 1511054-12

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Indeno(1,2,3-cd)pyrene	5.0	0.76	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 15:13	CMR
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
1-Methylnaphthalene	0.37	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2-Methylnaphthalene	0.52	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Naphthalene	0.43	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
N-Nitrosodimethylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Phenanthrene	3.7	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Pyrene	6.7	0.76	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 15:13	CMR
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 16:49	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		79.7	30-130					9/28/15 16:49	
Phenol-d6		78.2	30-130					9/28/15 16:49	
Nitrobenzene-d5		78.6	30-130					9/28/15 16:49	
2-Fluorobiphenyl		86.1	30-130					9/28/15 16:49	
2,4,6-Tribromophenol		78.5	30-130					9/28/15 16:49	
p-Terphenyl-d14		95.1	30-130					9/28/15 16:49	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-54-EA-0-2

Sampled: 9/22/2015 13:30

Sample ID: 1511054-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4500	2.7		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Antimony	2.9	2.6		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 18:14	MJH
Arsenic	10	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Barium	99	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Beryllium	0.33	0.27		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Cadmium	2.2	0.27		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Calcium	26000	8.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Chromium	43	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Cobalt	7.2	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Copper	170	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Iron	67000	27		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 15:22	AME
Lead	280	0.80		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Magnesium	2200	8.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Manganese	750	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 15:05	AME
Mercury	0.20	0.028		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:50	SCB
Nickel	69	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Potassium	430	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 15:05	AME
Selenium	ND	5.4	3.2	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Silver	2.0	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Sodium	ND	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 15:05	AME
Thallium	ND	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Vanadium	22	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH
Zinc	330	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:02	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-54-EA-0-2

Sampled: 9/22/2015 13:30

Sample ID: 1511054-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.6		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-55-EA-0-2

Sampled: 9/22/2015 13:20

Sample ID: 1511054-13

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Acrylonitrile	ND	0.0065	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Bromochloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	R-05	SW-846 8260C	9/28/15	9/28/15 17:25	MFF
2-Butanone (MEK)	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
tert-Butyl Alcohol (TBA)	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Carbon Disulfide	ND	0.0065	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Chloroform	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,1-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Diethyl Ether	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-55-EA-0-2

Sampled: 9/22/2015 13:20

Sample ID: 1511054-13

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Naphthalene	ND	0.0043	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 17:25	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1	V-05	SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1	L-04, V-05	SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,3,5-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
m+p Xylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/28/15	9/28/15 17:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.6	70-130	9/28/15 17:25
Toluene-d8	101	70-130	9/28/15 17:25
4-Bromofluorobenzene	97.0	70-130	9/28/15 17:25

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-55-EA-0-2

Sampled: 9/22/2015 13:20

Sample ID: 1511054-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Acetophenone	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Aniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Anthracene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Benzidine	ND	0.75	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Benzo(a)anthracene	2.7	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Benzo(a)pyrene	4.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Benzo(b)fluoranthene	4.2	0.78	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 15:36	CMR
Benzo(g,h,i)perylene	2.4	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Benzo(k)fluoranthene	1.8	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
4-Chloroaniline	ND	0.75	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
4-Chloro-3-methylphenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
4-Chlorophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Chrysene	4.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Dibenz(a,h)anthracene	0.78	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
1,2-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
1,3-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
1,4-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
4,6-Dinitro-2-methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2,4-Dinitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Fluoranthene	2.4	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-55-EA-0-2

Sampled: 9/22/2015 13:20

Sample ID: 1511054-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Indeno(1,2,3-cd)pyrene	2.3	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
1-Methylnaphthalene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2-Methylnaphthalene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Naphthalene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
3-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
4-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
4-Nitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
N-Nitrosodimethylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
N-Nitrosodiphenylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
N-Nitrosodi-n-propylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Pentachloronitrobenzene	ND	0.39	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Phenanthrene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Pyrene	2.5	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:11	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		77.5	30-130					9/28/15 17:11	
Phenol-d6		74.5	30-130					9/28/15 17:11	
Nitrobenzene-d5		75.0	30-130					9/28/15 17:11	
2-Fluorobiphenyl		83.3	30-130					9/28/15 17:11	
2,4,6-Tribromophenol		79.7	30-130					9/28/15 17:11	
p-Terphenyl-d14		90.4	30-130					9/28/15 17:11	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-55-EA-0-2

Sampled: 9/22/2015 13:20

Sample ID: 1511054-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4400	2.8		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	10/3/15 15:11	AME
Antimony	ND	2.8		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 18:18	MJH
Arsenic	4.5	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Barium	56	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Beryllium	ND	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Cadmium	1.1	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Calcium	2900	8.3		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Chromium	18	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Cobalt	5.0	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Copper	79	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Iron	24000	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 15:11	AME
Lead	120	0.83		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Magnesium	630	8.3		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Manganese	310	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 15:11	AME
Mercury	0.42	0.027		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:52	SCB
Nickel	29	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Potassium	400	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 15:11	AME
Selenium	3.9	5.5	3.3	mg/Kg dry	1	J	SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Silver	2.2	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Sodium	ND	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 15:11	AME
Thallium	ND	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Vanadium	12	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH
Zinc	220	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:22	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-55-EA-0-2

Sampled: 9/22/2015 13:20

Sample ID: 1511054-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.3		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-56-EA-0-1

Sampled: 9/22/2015 13:50

Sample ID: 1511054-14

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Acrylonitrile	ND	0.0069	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
2-Butanone (MEK)	ND	0.046	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
tert-Butyl Alcohol (TBA)	ND	0.046	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Carbon Disulfide	ND	0.0069	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Chloroform	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
trans-1,4-Dichloro-2-butene	ND	0.0046	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,1-Dichloroethylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Diethyl Ether	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-56-EA-0-1

Sampled: 9/22/2015 13:50

Sample ID: 1511054-14

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Naphthalene	ND	0.0046	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 15:44	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,3,5-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
m+p Xylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 15:44	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	9/29/15 15:44
Toluene-d8	102	70-130	9/29/15 15:44
4-Bromofluorobenzene	96.0	70-130	9/29/15 15:44

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-56-EA-0-1

Sampled: 9/22/2015 13:50

Sample ID: 1511054-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Acetophenone	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Aniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Benzidine	ND	0.75	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Benzo(a)anthracene	0.98	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Benzo(a)pyrene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Benzo(b)fluoranthene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Benzo(g,h,i)perylene	0.87	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Benzo(k)fluoranthene	0.65	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
4-Chloroaniline	ND	0.75	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
4-Chloro-3-methylphenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
4-Chlorophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Chrysene	1.5	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Dibenz(a,h)anthracene	0.29	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
1,2-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
1,3-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
1,4-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
4,6-Dinitro-2-methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2,4-Dinitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Fluoranthene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-56-EA-0-1

Sampled: 9/22/2015 13:50

Sample ID: 1511054-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Indeno(1,2,3-cd)pyrene	0.92	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
1-Methylnaphthalene	0.81	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2-Methylnaphthalene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Naphthalene	0.70	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
3-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
4-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
4-Nitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
N-Nitrosodimethylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
N-Nitrosodiphenylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
N-Nitrosodi-n-propylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Pentachloronitrobenzene	ND	0.39	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Phenanthrene	1.3	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Pyrene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 13:19	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	79.2	30-130	9/29/15 13:19
Phenol-d6	80.6	30-130	9/29/15 13:19
Nitrobenzene-d5	76.2	30-130	9/29/15 13:19
2-Fluorobiphenyl	93.8	30-130	9/29/15 13:19
2,4,6-Tribromophenol	92.3	30-130	9/29/15 13:19
p-Terphenyl-d14	117	30-130	9/29/15 13:19

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-56-EA-0-1

Sampled: 9/22/2015 13:50

Sample ID: 1511054-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6500	2.7		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	10/3/15 16:17	AME
Antimony	ND	2.7		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 18:22	MJH
Arsenic	7.9	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Barium	68	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Beryllium	0.48	0.27		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Cadmium	0.44	0.27		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Calcium	21000	8.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Chromium	9.1	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Cobalt	4.2	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Copper	110	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Iron	20000	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:17	AME
Lead	120	0.80		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Magnesium	1300	8.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Manganese	220	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:17	AME
Mercury	0.13	0.026		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:53	SCB
Nickel	10	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Potassium	430	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:17	AME
Selenium	ND	5.3	3.2	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Silver	1.5	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Sodium	210	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:17	AME
Thallium	ND	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Vanadium	16	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH
Zinc	99	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:26	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-56-EA-0-1

Sampled: 9/22/2015 13:50

Sample ID: 1511054-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-57-EA-0-1

Sampled: 9/22/2015 14:55

Sample ID: 1511054-15

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Acrylonitrile	ND	0.0075	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Benzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Bromobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Bromochloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Bromodichloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Bromoform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
2-Butanone (MEK)	ND	0.050	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
tert-Butyl Alcohol (TBA)	ND	0.050	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
n-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
sec-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
tert-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Carbon Disulfide	ND	0.0075	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Carbon Tetrachloride	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Chlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Chloroethane	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Chloroform	ND	0.0050	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
2-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
4-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	mg/Kg dry	1	MS-09, V-05	SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Dibromomethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,2-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,3-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,4-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
trans-1,4-Dichloro-2-butene	ND	0.0050	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	mg/Kg dry	1	MS-09	SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,1-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,2-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,1-Dichloroethylene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
cis-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
trans-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
2,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,1-Dichloropropene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Diethyl Ether	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-57-EA-0-1

Sampled: 9/22/2015 14:55

Sample ID: 1511054-15

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Ethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Hexachlorobutadiene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
2-Hexanone (MBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Isopropylbenzene (Cumene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Methylene Chloride	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Naphthalene	ND	0.0050	mg/Kg dry	1	MS-09, V-05	SW-846 8260C	9/29/15	9/29/15 13:05	MFF
n-Propylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Styrene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,1,1,2-Tetrachloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Tetrachloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Toluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,2,3-Trichlorobenzene	ND	0.0025	mg/Kg dry	1	MS-09, V-05	SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,2,4-Trichlorobenzene	ND	0.0025	mg/Kg dry	1	V-05, MS-09	SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,3,5-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,1,1-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,1,2-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Trichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,2,3-Trichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,2,4-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
1,3,5-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
m+p Xylene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF
o-Xylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 13:05	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	9/29/15 13:05
Toluene-d8	102	70-130	9/29/15 13:05
4-Bromofluorobenzene	98.5	70-130	9/29/15 13:05

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-57-EA-0-1

Sampled: 9/22/2015 14:55

Sample ID: 1511054-15

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Acetophenone	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Aniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Benzidine	ND	0.82	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Butylbenzylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
4-Chloroaniline	ND	0.82	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
4-Chloro-3-methylphenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
4-Chlorophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
1,2-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
1,3-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
1,4-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Dimethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2,4-Dinitrophenol	ND	0.82	mg/Kg dry	1	MS-09	SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Di-n-octylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-57-EA-0-1

Sampled: 9/22/2015 14:55

Sample ID: 1511054-15

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Hexachlorocyclopentadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
1-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
3-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
4-Nitroaniline	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
4-Nitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
N-Nitrosodimethylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
N-Nitrosodiphenylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
N-Nitrosodi-n-propylamine	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Pentachloronitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Pyridine	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 17:56	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		99.1	30-130					9/28/15 17:56	
Phenol-d6		92.4	30-130					9/28/15 17:56	
Nitrobenzene-d5		88.1	30-130					9/28/15 17:56	
2-Fluorobiphenyl		105	30-130					9/28/15 17:56	
2,4,6-Tribromophenol		113	30-130					9/28/15 17:56	
p-Terphenyl-d14		117	30-130					9/28/15 17:56	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-57-EA-0-1

Sampled: 9/22/2015 14:55

Sample ID: 1511054-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	14000	3.0		mg/Kg dry	1	B, B-07, MS-19	SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Antimony	3.2	3.1		mg/Kg dry	1	MS-07	SW-846 6010C	10/6/15	10/7/15 17:03	MJH
Arsenic	4.3	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Barium	120	3.0		mg/Kg dry	1	MS-22	SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Beryllium	0.95	0.30		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Cadmium	ND	0.30		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Calcium	6000	8.9		mg/Kg dry	1	MS-19	SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Chromium	17	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Cobalt	8.2	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Copper	21	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Iron	21000	3.0		mg/Kg dry	1	MS-19	SW-846 6010C	9/25/15	10/3/15 13:36	AME
Lead	25	0.89		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Magnesium	3800	8.9		mg/Kg dry	1	MS-19	SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Manganese	380	0.59		mg/Kg dry	1	MS-22	SW-846 6010C	9/25/15	10/5/15 12:39	MJH
Mercury	0.049	0.027		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:55	SCB
Nickel	14	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Potassium	1400	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:36	AME
Selenium	4.0	5.9	3.6	mg/Kg dry	1	J, MS-22	SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Silver	1.4	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Sodium	150	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 13:36	AME
Thallium	ND	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Vanadium	30	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 17:57	MJH
Zinc	88	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 17:57	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Sampled: 9/22/2015 14:55

Field Sample #: SS-57-EA-0-1

Sample ID: 1511054-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.3		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-58-EA-0-1

Sampled: 9/22/2015 15:10

Sample ID: 1511054-16

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Acrylonitrile	ND	0.0060	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Carbon Disulfide	ND	0.0060	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-58-EA-0-1

Sampled: 9/22/2015 15:10

Sample ID: 1511054-16

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Naphthalene	ND	0.0040	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 16:16	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:16	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	9/29/15 16:16
Toluene-d8	102	70-130	9/29/15 16:16
4-Bromofluorobenzene	96.0	70-130	9/29/15 16:16

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-58-EA-0-1

Sampled: 9/22/2015 15:10

Sample ID: 1511054-16

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Aniline	ND	0.40	mg/Kg dry	1	MS-09	SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Benzidine	ND	0.78	mg/Kg dry	1	MS-09, V-04, V-05	SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Benzo(a)anthracene	0.53	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Benzo(a)pyrene	0.69	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Benzo(b)fluoranthene	0.92	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Benzo(g,h,i)perylene	0.24	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Benzo(k)fluoranthene	0.34	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1	MS-09	SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
4-Chloroaniline	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
4-Chloro-3-methylphenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1	R-06	SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Chrysene	0.66	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2,4-Dinitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Fluoranthene	0.92	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-58-EA-0-1

Sampled: 9/22/2015 15:10

Sample ID: 1511054-16

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Indeno(1,2,3-cd)pyrene	0.29	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
1-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
3-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
4-Nitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
N-Nitrosodimethylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Phenanthrene	0.53	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Pyrene	0.92	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/28/15 18:20	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	83.9	30-130	9/28/15 18:20
Phenol-d6	80.8	30-130	9/28/15 18:20
Nitrobenzene-d5	79.0	30-130	9/28/15 18:20
2-Fluorobiphenyl	92.7	30-130	9/28/15 18:20
2,4,6-Tribromophenol	91.2	30-130	9/28/15 18:20
p-Terphenyl-d14	100	30-130	9/28/15 18:20

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-58-EA-0-1

Sampled: 9/22/2015 15:10

Sample ID: 1511054-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5500	3.0		mg/Kg dry	1	B	SW-846 6010C	9/25/15	10/5/15 12:43	MJH
Antimony	ND	2.9		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 18:26	MJH
Arsenic	6.0	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Barium	53	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Beryllium	0.37	0.30		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Cadmium	0.66	0.30		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Calcium	26000	8.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Chromium	9.4	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Cobalt	3.6	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Copper	110	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Iron	16000	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	10/5/15 12:43	MJH
Lead	130	0.89		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Magnesium	2100	8.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Manganese	340	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	10/5/15 12:43	MJH
Mercury	0.21	0.026		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:56	SCB
Nickel	7.6	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Potassium	ND	1200		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 15:34	AME
Selenium	ND	5.9	3.6	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Silver	1.2	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Sodium	ND	1200		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 15:34	AME
Thallium	ND	3.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Vanadium	18	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH
Zinc	150	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:30	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-58-EA-0-1

Sampled: 9/22/2015 15:10

Sample ID: 1511054-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.4		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-59-EA-0-1

Sampled: 9/22/2015 15:15

Sample ID: 1511054-17

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Acrylonitrile	ND	0.0068	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
2-Butanone (MEK)	ND	0.046	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
tert-Butyl Alcohol (TBA)	ND	0.046	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Chloroform	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
trans-1,4-Dichloro-2-butene	ND	0.0046	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,1-Dichloroethylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Diethyl Ether	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-59-EA-0-1

Sampled: 9/22/2015 15:15

Sample ID: 1511054-17

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Naphthalene	ND	0.0046	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 16:48	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,3,5-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
m+p Xylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 16:48	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	9/29/15 16:48
Toluene-d8	102	70-130	9/29/15 16:48
4-Bromofluorobenzene	97.4	70-130	9/29/15 16:48

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-59-EA-0-1

Sampled: 9/22/2015 15:15

Sample ID: 1511054-17

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Acenaphthylene	0.20	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Aniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Benzidine	ND	0.77	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Benzo(a)anthracene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Benzo(a)pyrene	1.5	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Benzo(b)fluoranthene	1.8	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Benzo(g,h,i)perylene	1.0	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Benzo(k)fluoranthene	0.70	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
4-Chloroaniline	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
4-Chloro-3-methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Chrysene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Dibenz(a,h)anthracene	0.30	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Fluoranthene	1.8	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-59-EA-0-1

Sampled: 9/22/2015 15:15

Sample ID: 1511054-17

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Indeno(1,2,3-cd)pyrene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
1-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
3-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
N-Nitrosodimethylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Phenanthrene	0.49	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Pyrene	1.7	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:06	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	81.8	30-130	9/29/15 11:06
Phenol-d6	82.1	30-130	9/29/15 11:06
Nitrobenzene-d5	74.9	30-130	9/29/15 11:06
2-Fluorobiphenyl	94.4	30-130	9/29/15 11:06
2,4,6-Tribromophenol	97.1	30-130	9/29/15 11:06
p-Terphenyl-d14	100	30-130	9/29/15 11:06

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-59-EA-0-1

Sampled: 9/22/2015 15:15

Sample ID: 1511054-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9300	2.8		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	10/3/15 16:29	AME
Antimony	ND	2.7		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 18:30	MJH
Arsenic	20	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Barium	140	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Beryllium	0.60	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Cadmium	0.56	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Calcium	97000	85		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 15:39	AME
Chromium	15	0.57		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Cobalt	5.5	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Copper	34	0.57		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Iron	14000	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:29	AME
Lead	100	0.85		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Magnesium	3600	8.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Manganese	360	0.57		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:29	AME
Mercury	0.097	0.029		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 15:02	SCB
Nickel	10	0.57		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Potassium	1300	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:29	AME
Selenium	ND	5.7	3.4	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Silver	ND	0.57		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Sodium	460	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:29	AME
Thallium	ND	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Vanadium	20	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH
Zinc	120	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:34	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Sampled: 9/22/2015 15:15

Field Sample #: SS-59-EA-0-1

Sample ID: 1511054-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.0		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-60-EA-0-1

Sampled: 9/22/2015 15:26

Sample ID: 1511054-18

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Acrylonitrile	ND	0.0076	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Benzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Bromobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Bromochloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Bromodichloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Bromoform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Bromomethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
2-Butanone (MEK)	ND	0.050	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
tert-Butyl Alcohol (TBA)	ND	0.050	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
n-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
sec-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
tert-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Carbon Disulfide	ND	0.0076	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Carbon Tetrachloride	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Chlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Chloroethane	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Chloroform	ND	0.0050	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Chloromethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
2-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
4-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Dibromomethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,2-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,3-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,4-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
trans-1,4-Dichloro-2-butene	ND	0.0050	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,1-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,2-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,1-Dichloroethylene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
cis-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
trans-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,3-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
2,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,1-Dichloropropene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
cis-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
trans-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Diethyl Ether	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-60-EA-0-1

Sampled: 9/22/2015 15:26

Sample ID: 1511054-18

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,4-Dioxane	ND	0.13	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Ethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Hexachlorobutadiene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
2-Hexanone (MBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Isopropylbenzene (Cumene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Methylene Chloride	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Naphthalene	ND	0.0050	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 17:20	MFF
n-Propylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Styrene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,1,1,2-Tetrachloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Tetrachloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Tetrahydrofuran	ND	0.013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Toluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,2,3-Trichlorobenzene	ND	0.0025	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,2,4-Trichlorobenzene	ND	0.0025	mg/Kg dry	1	V-05	SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,3,5-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,1,1-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,1,2-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Trichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,2,3-Trichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,2,4-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
1,3,5-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
Vinyl Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
m+p Xylene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF
o-Xylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	9/29/15	9/29/15 17:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.2	70-130	9/29/15 17:20
Toluene-d8	102	70-130	9/29/15 17:20
4-Bromofluorobenzene	92.9	70-130	9/29/15 17:20

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-60-EA-0-1

Sampled: 9/22/2015 15:26

Sample ID: 1511054-18

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Acetophenone	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Aniline	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Benzidine	ND	0.85	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Benzo(a)anthracene	0.44	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Benzo(a)pyrene	0.46	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Benzo(b)fluoranthene	0.63	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Benzo(g,h,i)perylene	0.32	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Benzoic Acid	ND	1.3	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Bis(2-chloroethoxy)methane	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Bis(2-chloroethyl)ether	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Bis(2-chloroisopropyl)ether	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
4-Bromophenylphenylether	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Butylbenzylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Carbazole	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
4-Chloroaniline	ND	0.85	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
4-Chloro-3-methylphenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2-Chloronaphthalene	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2-Chlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
4-Chlorophenylphenylether	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Chrysene	0.52	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Dibenzofuran	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Di-n-butylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
1,2-Dichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
1,3-Dichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
1,4-Dichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
3,3-Dichlorobenzidine	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2,4-Dichlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Diethylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2,4-Dimethylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Dimethylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
4,6-Dinitro-2-methylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2,4-Dinitrophenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2,4-Dinitrotoluene	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2,6-Dinitrotoluene	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Di-n-octylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Fluoranthene	1.0	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-60-EA-0-1

Sampled: 9/22/2015 15:26

Sample ID: 1511054-18

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Hexachlorobutadiene	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Hexachlorocyclopentadiene	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Hexachloroethane	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Indeno(1,2,3-cd)pyrene	0.35	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Isophorone	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
1-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2-Methylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
3/4-Methylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Naphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2-Nitroaniline	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
3-Nitroaniline	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
4-Nitroaniline	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Nitrobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2-Nitrophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
4-Nitrophenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
N-Nitrosodimethylamine	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
N-Nitrosodiphenylamine	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
N-Nitrosodi-n-propylamine	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Pentachloronitrobenzene	ND	0.44	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Pentachlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Phenanthrene	0.70	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Phenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Pyrene	0.87	0.22	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Pyridine	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
1,2,4-Trichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2,4,5-Trichlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
2,4,6-Trichlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 11:28	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		98.9	30-130					9/29/15 11:28	
Phenol-d6		91.3	30-130					9/29/15 11:28	
Nitrobenzene-d5		87.8	30-130					9/29/15 11:28	
2-Fluorobiphenyl		96.3	30-130					9/29/15 11:28	
2,4,6-Tribromophenol		97.1	30-130					9/29/15 11:28	
p-Terphenyl-d14		107	30-130					9/29/15 11:28	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-60-EA-0-1

Sampled: 9/22/2015 15:26

Sample ID: 1511054-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3800	2.9		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	10/3/15 16:34	AME
Antimony	ND	3.0		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 18:34	MJH
Arsenic	39	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Barium	33	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Beryllium	0.40	0.29		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Cadmium	1.1	0.29		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Calcium	170000	88		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 15:43	AME
Chromium	6.0	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Cobalt	ND	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Copper	17	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Iron	6800	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:34	AME
Lead	73	0.88		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Magnesium	2800	8.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Manganese	270	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:34	AME
Mercury	0.093	0.031		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 15:03	SCB
Nickel	5.2	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Potassium	570	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:34	AME
Selenium	ND	5.9	3.6	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Silver	ND	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Sodium	ND	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:34	AME
Thallium	ND	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Vanadium	9.6	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH
Zinc	170	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:38	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Sampled: 9/22/2015 15:26

Field Sample #: SS-60-EA-0-1

Sample ID: 1511054-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.9		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-61-EA-0-1

Sampled: 9/22/2015 15:45

Sample ID: 1511054-19

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Acrylonitrile	ND	0.0070	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
2-Butanone (MEK)	ND	0.047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Carbon Disulfide	ND	0.0070	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Chloroform	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
trans-1,4-Dichloro-2-butene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,1-Dichloroethylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Diethyl Ether	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-61-EA-0-1

Sampled: 9/22/2015 15:45

Sample ID: 1511054-19

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Naphthalene	ND	0.0047	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 14:39	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,3,5-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
m+p Xylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 14:39	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.3	70-130	9/30/15 14:39
Toluene-d8	101	70-130	9/30/15 14:39
4-Bromofluorobenzene	95.0	70-130	9/30/15 14:39

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-61-EA-0-1

Sampled: 9/22/2015 15:45

Sample ID: 1511054-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Aniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Anthracene	0.35	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Benzidine	ND	0.80	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Benzo(a)anthracene	0.97	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Benzo(a)pyrene	0.92	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Benzo(b)fluoranthene	1.0	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Benzo(g,h,i)perylene	0.57	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Benzo(k)fluoranthene	0.34	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
4-Chloroaniline	ND	0.80	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
4-Chloro-3-methylphenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
4-Chlorophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Chrysene	0.91	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2,4-Dinitrophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1	V-20	SW-846 8270D	9/25/15	9/30/15 10:45	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Fluoranthene	2.2	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-61-EA-0-1

Sampled: 9/22/2015 15:45

Sample ID: 1511054-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Hexachlorocyclopentadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Indeno(1,2,3-cd)pyrene	0.60	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
1-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
3-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
4-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
4-Nitrophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
N-Nitrosodimethylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
N-Nitrosodiphenylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
N-Nitrosodi-n-propylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Pentachloronitrobenzene	ND	0.41	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Phenanthrene	1.6	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Pyrene	1.9	0.21	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Pyridine	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/30/15 10:45	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		89.8	30-130					9/30/15 10:45	
Phenol-d6		82.2	30-130					9/30/15 10:45	
Nitrobenzene-d5		78.6	30-130					9/30/15 10:45	
2-Fluorobiphenyl		95.3	30-130					9/30/15 10:45	
2,4,6-Tribromophenol		92.1	30-130					9/30/15 10:45	
p-Terphenyl-d14		93.9	30-130					9/30/15 10:45	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-61-EA-0-1

Sampled: 9/22/2015 15:45

Sample ID: 1511054-19

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3800	2.9		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	10/3/15 16:39	AME
Antimony	ND	3.0		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 18:38	MJH
Arsenic	23	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Barium	230	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Beryllium	0.33	0.29		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Cadmium	0.53	0.29		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Calcium	100000	88		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 15:47	AME
Chromium	8.0	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Cobalt	ND	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Copper	210	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Iron	12000	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:39	AME
Lead	8700	8.8		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 15:47	AME
Magnesium	5200	8.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Manganese	320	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:39	AME
Mercury	0.42	0.028		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 15:04	SCB
Nickel	4.4	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Potassium	700	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:39	AME
Selenium	ND	5.9	3.6	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Silver	0.71	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Sodium	180	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:39	AME
Thallium	ND	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Vanadium	16	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH
Zinc	740	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:42	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Sampled: 9/22/2015 15:45

Field Sample #: SS-61-EA-0-1

Sample ID: 1511054-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-62-EA-0-1

Sampled: 9/22/2015 16:00

Sample ID: 1511054-20

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Acrylonitrile	ND	0.0071	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Benzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Bromobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Bromochloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Bromodichloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Bromoform	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
2-Butanone (MEK)	ND	0.047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
n-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
sec-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
tert-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Carbon Disulfide	ND	0.0071	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Carbon Tetrachloride	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Chlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Chloroethane	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Chloroform	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
2-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
4-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Dibromomethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,2-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,3-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,4-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
trans-1,4-Dichloro-2-butene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,1-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,2-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,1-Dichloroethylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
cis-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
trans-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
2,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,1-Dichloropropene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Diethyl Ether	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-62-EA-0-1

Sampled: 9/22/2015 16:00

Sample ID: 1511054-20

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Ethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Hexachlorobutadiene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
2-Hexanone (MBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Isopropylbenzene (Cumene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Methylene Chloride	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Naphthalene	ND	0.0047	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 15:10	MFF
n-Propylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Styrene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Tetrachloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Toluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,2,3-Trichlorobenzene	ND	0.0024	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,2,4-Trichlorobenzene	ND	0.0024	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,3,5-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,1,1-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,1,2-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Trichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,2,3-Trichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,2,4-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
1,3,5-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
m+p Xylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF
o-Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:10	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	9/30/15 15:10
Toluene-d8	102	70-130	9/30/15 15:10
4-Bromofluorobenzene	97.4	70-130	9/30/15 15:10

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-62-EA-0-1

Sampled: 9/22/2015 16:00

Sample ID: 1511054-20

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Aniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Anthracene	0.88	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Benzidine	ND	0.79	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Benzo(a)anthracene	3.6	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Benzo(a)pyrene	3.2	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Benzo(b)fluoranthene	4.0	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Benzo(g,h,i)perylene	1.8	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Benzo(k)fluoranthene	1.4	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Carbazole	0.59	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
4-Chloroaniline	ND	0.79	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
4-Chloro-3-methylphenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
4-Chlorophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Chrysene	3.3	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Dibenz(a,h)anthracene	0.60	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Fluoranthene	7.6	0.82	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 17:32	CMR
Fluorene	0.26	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-62-EA-0-1

Sampled: 9/22/2015 16:00

Sample ID: 1511054-20

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Hexachlorocyclopentadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Indeno(1,2,3-cd)pyrene	2.0	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
1-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
3-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
4-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
N-Nitrosodimethylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
N-Nitrosodiphenylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
N-Nitrosodi-n-propylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Pentachloronitrobenzene	ND	0.41	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Phenanthrene	4.9	0.82	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 17:32	CMR
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
Pyrene	7.8	0.82	mg/Kg dry	4		SW-846 8270D	9/25/15	9/29/15 17:32	CMR
Pyridine	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	9/25/15	9/29/15 12:13	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	94.1	30-130	9/29/15 12:13
Phenol-d6	86.6	30-130	9/29/15 12:13
Nitrobenzene-d5	79.2	30-130	9/29/15 12:13
2-Fluorobiphenyl	92.4	30-130	9/29/15 12:13
2,4,6-Tribromophenol	105	30-130	9/29/15 12:13
p-Terphenyl-d14	111	30-130	9/29/15 12:13

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-62-EA-0-1

Sampled: 9/22/2015 16:00

Sample ID: 1511054-20

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7300	2.8		mg/Kg dry	1	B, B-07	SW-846 6010C	9/25/15	10/3/15 16:45	AME
Antimony	ND	3.0		mg/Kg dry	1		SW-846 6010C	10/6/15	10/7/15 18:42	MJH
Arsenic	14	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Barium	73	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Beryllium	0.50	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Cadmium	ND	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Calcium	69000	83		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 15:51	AME
Chromium	11	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Cobalt	5.3	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Copper	24	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Iron	13000	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:45	AME
Lead	190	0.83		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Magnesium	6100	8.3		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Manganese	290	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:45	AME
Mercury	0.33	0.028		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 15:06	SCB
Nickel	9.4	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Potassium	1500	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:45	AME
Selenium	ND	5.5	3.3	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Silver	0.60	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Sodium	360	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 16:45	AME
Thallium	ND	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Vanadium	21	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH
Zinc	73	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 19:46	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-62-EA-0-1

Sampled: 9/22/2015 16:00

Sample ID: 1511054-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.4		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-63-EA-0-1

Sampled: 9/22/2015 16:02

Sample ID: 1511054-21

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Acrylonitrile	ND	0.0061	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
tert-Butyl Alcohol (TBA)	ND	0.041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Carbon Disulfide	ND	0.0061	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-63-EA-0-1

Sampled: 9/22/2015 16:02

Sample ID: 1511054-21

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 15:42	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 15:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	9/30/15 15:42
Toluene-d8	101	70-130	9/30/15 15:42
4-Bromofluorobenzene	97.7	70-130	9/30/15 15:42

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-63-EA-0-1

Sampled: 9/22/2015 16:02

Sample ID: 1511054-21

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Acenaphthylene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Acetophenone	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Aniline	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Anthracene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Benzidine	ND	2.9	mg/Kg dry	2	R-05, V-04, V-05	SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Benzo(a)anthracene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Benzo(a)pyrene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Benzo(b)fluoranthene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Benzo(g,h,i)perylene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Benzo(k)fluoranthene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Benzoic Acid	ND	4.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Bis(2-chloroethoxy)methane	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Bis(2-chloroethyl)ether	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Bis(2-chloroisopropyl)ether	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Bis(2-Ethylhexyl)phthalate	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
4-Bromophenylphenylether	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Butylbenzylphthalate	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Carbazole	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
4-Chloroaniline	ND	2.9	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
4-Chloro-3-methylphenol	ND	2.9	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2-Chloronaphthalene	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2-Chlorophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
4-Chlorophenylphenylether	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Chrysene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Dibenz(a,h)anthracene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Dibenzofuran	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Di-n-butylphthalate	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
1,2-Dichlorobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
1,3-Dichlorobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
1,4-Dichlorobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
3,3-Dichlorobenzidine	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2,4-Dichlorophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Diethylphthalate	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2,4-Dimethylphenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Dimethylphthalate	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
4,6-Dinitro-2-methylphenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2,4-Dinitrophenol	ND	2.9	mg/Kg dry	2	R-05	SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2,4-Dinitrotoluene	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2,6-Dinitrotoluene	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Di-n-octylphthalate	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Fluoranthene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Fluorene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-63-EA-0-1

Sampled: 9/22/2015 16:02

Sample ID: 1511054-21

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Hexachlorobutadiene	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Hexachlorocyclopentadiene	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Hexachloroethane	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Indeno(1,2,3-cd)pyrene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Isophorone	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
1-Methylnaphthalene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2-Methylnaphthalene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2-Methylphenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
3/4-Methylphenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Naphthalene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2-Nitroaniline	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
3-Nitroaniline	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
4-Nitroaniline	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Nitrobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2-Nitrophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
4-Nitrophenol	ND	2.9	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
N-Nitrosodimethylamine	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
N-Nitrosodiphenylamine	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
N-Nitrosodi-n-propylamine	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Pentachloronitrobenzene	ND	1.5	mg/Kg dry	2	V-16	SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Pentachlorophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Phenanthrene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Phenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Pyrene	ND	0.76	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
Pyridine	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
1,2,4,5-Tetrachlorobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
1,2,4-Trichlorobenzene	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2,4,5-Trichlorophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR
2,4,6-Trichlorophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D	9/25/15	9/26/15 14:24	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	91.9	30-130	9/26/15 14:24
Phenol-d6	91.1	30-130	9/26/15 14:24
Nitrobenzene-d5	86.4	30-130	9/26/15 14:24
2-Fluorobiphenyl	91.4	30-130	9/26/15 14:24
2,4,6-Tribromophenol	89.8	30-130	9/26/15 14:24
p-Terphenyl-d14	108	30-130	9/26/15 14:24

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-63-EA-0-1

Sampled: 9/22/2015 16:02

Sample ID: 1511054-21

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3400	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 10:53	AME
Antimony	ND	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Arsenic	29	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Barium	73	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Beryllium	0.34	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Cadmium	0.48	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Calcium	29000	8.3		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Chromium	42	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Cobalt	14	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Copper	350	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Iron	210000	28		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 12:12	AME
Lead	230	0.83		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Magnesium	1200	8.3		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Manganese	1700	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 10:53	AME
Mercury	0.74	0.14		mg/Kg dry	5		SW-846 7471B	9/25/15	9/29/15 14:16	SCB
Nickel	39	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Potassium	300	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 10:53	AME
Selenium	8.8	5.5	3.4	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Silver	ND	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Sodium	ND	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 10:53	AME
Thallium	ND	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Vanadium	63	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH
Zinc	140	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:27	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-63-EA-0-1

Sampled: 9/22/2015 16:02

Sample ID: 1511054-21

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.6		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-64-EA-0-1

Sampled: 9/22/2015 16:08

Sample ID: 1511054-22

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Acrylonitrile	ND	0.0066	mg/Kg dry	1	MS-09	SW-846 8260C	9/30/15	9/30/15 11:59	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Bromochloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	MS-09	SW-846 8260C	9/30/15	9/30/15 11:59	MFF
2-Butanone (MEK)	ND	0.044	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
tert-Butyl Alcohol (TBA)	ND	0.044	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Carbon Disulfide	ND	0.0066	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Chloroform	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1	MS-09, V-05	SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
trans-1,4-Dichloro-2-butene	ND	0.0044	mg/Kg dry	1	MS-09, R-06	SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1	MS-09	SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,1-Dichloroethylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Diethyl Ether	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-64-EA-0-1

Sampled: 9/22/2015 16:08

Sample ID: 1511054-22

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Naphthalene	ND	0.0044	mg/Kg dry	1	MS-09, V-05	SW-846 8260C	9/30/15	9/30/15 11:59	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1	MS-09, V-05	SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1	MS-09, V-05	SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,3,5-Trichlorobenzene	ND	0.0022	mg/Kg dry	1	MS-09	SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
m+p Xylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 11:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	9/30/15 11:59
Toluene-d8	102	70-130	9/30/15 11:59
4-Bromofluorobenzene	97.9	70-130	9/30/15 11:59

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-64-EA-0-1

Sampled: 9/22/2015 16:08

Sample ID: 1511054-22

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Aniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Benzidine	ND	0.77	mg/Kg dry	1	MS-09, R-05, V-04, V-05	SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Benzo(a)anthracene	0.75	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Benzo(a)pyrene	0.72	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Benzo(b)fluoranthene	0.89	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Benzo(g,h,i)perylene	0.46	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Benzo(k)fluoranthene	0.32	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1	MS-09	SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
4-Chloroaniline	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
4-Chloro-3-methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Chrysene	0.74	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1	R-05	SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Fluoranthene	1.5	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-64-EA-0-1

Sampled: 9/22/2015 16:08

Sample ID: 1511054-22

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1	MS-09	SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Indeno(1,2,3-cd)pyrene	0.50	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
1-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
3-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
N-Nitrosodimethylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Phenanthrene	0.85	0.20	mg/Kg dry	1	R-06	SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Pyrene	1.5	0.20	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:30	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	93.5	30-130	
Phenol-d6	89.8	30-130	
Nitrobenzene-d5	83.5	30-130	
2-Fluorobiphenyl	97.0	30-130	
2,4,6-Tribromophenol	95.7	30-130	
p-Terphenyl-d14	103	30-130	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-64-EA-0-1

Sampled: 9/22/2015 16:08

Sample ID: 1511054-22

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9100	2.9		mg/Kg dry	1	MS-19	SW-846 6010C	9/25/15	10/3/15 10:48	AME
Antimony	ND	2.9		mg/Kg dry	1	MS-07A	SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Arsenic	17	2.9		mg/Kg dry	1	R-02	SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Barium	83	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Beryllium	0.52	0.29		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Cadmium	ND	0.29		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Calcium	76000	88		mg/Kg dry	10	MS-19, R-02	SW-846 6010C	9/25/15	10/3/15 12:08	AME
Chromium	12	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Cobalt	5.6	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Copper	11	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Iron	17000	2.9		mg/Kg dry	1	MS-19	SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Lead	190	0.88		mg/Kg dry	1	MS-22, R-02	SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Magnesium	5700	8.8		mg/Kg dry	1	MS-19, R-02	SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Manganese	340	0.59		mg/Kg dry	1	MS-07A, R-02	SW-846 6010C	9/25/15	10/3/15 10:48	AME
Mercury	0.076	0.028		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 13:54	SCB
Nickel	9.5	0.59		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Potassium	2100	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 10:48	AME
Selenium	ND	5.9	3.6	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Silver	0.94	0.59		mg/Kg dry	1	MS-07A, R-04	SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Sodium	230	120		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 10:48	AME
Thallium	ND	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Vanadium	22	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:23	MJH
Zinc	69	1.2		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:23	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-64-EA-0-1

Sampled: 9/22/2015 16:08

Sample ID: 1511054-22

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.0		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-65-EA-0-1

Sampled: 9/22/2015 16:18

Sample ID: 1511054-23

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Acrylonitrile	ND	0.0060	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Carbon Disulfide	ND	0.0060	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-65-EA-0-1

Sampled: 9/22/2015 16:18

Sample ID: 1511054-23

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Naphthalene	ND	0.0040	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 16:14	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	9/30/15 16:14
Toluene-d8	101	70-130	9/30/15 16:14
4-Bromofluorobenzene	96.7	70-130	9/30/15 16:14

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-65-EA-0-1

Sampled: 9/22/2015 16:18

Sample ID: 1511054-23

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Anthracene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Benzidine	ND	0.73	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Benzo(a)anthracene	0.91	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Benzo(a)pyrene	0.83	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Benzo(b)fluoranthene	1.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Benzo(g,h,i)perylene	0.50	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Benzo(k)fluoranthene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
4-Chloroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
4-Chloro-3-methylphenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Chrysene	0.84	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1	R-05	SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Fluoranthene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-65-EA-0-1

Sampled: 9/22/2015 16:18

Sample ID: 1511054-23

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Indeno(1,2,3-cd)pyrene	0.53	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
1-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
N-Nitrosodimethylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Phenanthrene	0.95	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Pyrene	1.8	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 15:52	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	80.7	30-130	
Phenol-d6	78.4	30-130	
Nitrobenzene-d5	73.3	30-130	
2-Fluorobiphenyl	83.8	30-130	
2,4,6-Tribromophenol	86.4	30-130	
p-Terphenyl-d14	89.8	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-65-EA-0-1

Sampled: 9/22/2015 16:18

Sample ID: 1511054-23

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3400	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 10:56	AME
Antimony	ND	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Arsenic	18	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Barium	22	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Beryllium	ND	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Cadmium	ND	0.28		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Calcium	85000	83		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 12:17	AME
Chromium	4.1	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Cobalt	ND	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Copper	5.1	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Iron	9500	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Lead	81	0.83		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Magnesium	3000	8.3		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Manganese	170	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 10:56	AME
Mercury	0.13	0.025		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 13:55	SCB
Nickel	3.6	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Potassium	830	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 10:56	AME
Selenium	ND	5.5	3.3	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Silver	ND	0.55		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Sodium	ND	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 10:56	AME
Thallium	ND	2.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Vanadium	10	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH
Zinc	24	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:31	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: SS-65-EA-0-1

Sampled: 9/22/2015 16:18

Sample ID: 1511054-23

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.4		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: RB-092215

Sampled: 9/22/2015 16:30

Sample ID: 1511054-24

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Bromoform	ND	1.0	µg/L	1	V-05	SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Bromomethane	ND	2.0	µg/L	1	L-04, R-05, V-05	SW-846 8260C	10/1/15	10/1/15 12:17	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: RB-092215

Sampled: 9/22/2015 16:30

Sample ID: 1511054-24

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	10/1/15 12:17
Toluene-d8	101	70-130	10/1/15 12:17
4-Bromofluorobenzene	98.1	70-130	10/1/15 12:17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: RB-092215

Sampled: 9/22/2015 16:30

Sample ID: 1511054-24

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Acetophenone	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Aniline	ND	5.0	µg/L	1	V-05	SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Anthracene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Benzidine	ND	20	µg/L	1	L-04, V-05	SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Benzoic Acid	ND	10	µg/L	1	R-05	SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Carbazole	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Chrysene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
1,2-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
1,3-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
1,4-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2,4-Dimethylphenol	ND	10	µg/L	1	R-05	SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2,4-Dinitrophenol	ND	10	µg/L	1	R-05, V-19	SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Fluorene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: RB-092215

Sampled: 9/22/2015 16:30

Sample ID: 1511054-24

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Isophorone	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
1-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
N-Nitrosodimethylamine	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Phenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Pyrene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1	V-05	SW-846 8270D	9/26/15	10/1/15 15:21	CMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:21	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	49.1	15-110	
Phenol-d6	32.7	15-110	
Nitrobenzene-d5	91.5	30-130	
2-Fluorobiphenyl	92.3	30-130	
2,4,6-Tribromophenol	91.2	15-110	
p-Terphenyl-d14	97.9	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: RB-092215

Sampled: 9/22/2015 16:30

Sample ID: 1511054-24

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.11	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Antimony	ND	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Arsenic	ND	0.010		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Barium	ND	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Cadmium	ND	0.0040		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Calcium	0.78	0.15		mg/L	1		SW-846 6010C	9/28/15	10/1/15 21:50	MJH
Chromium	ND	0.010		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Cobalt	ND	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Copper	0.011	0.010		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Iron	0.78	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Lead	ND	0.010		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Magnesium	0.20	0.15		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Manganese	0.032	0.0		mg/L	1	B, B-07	SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Mercury	ND	0.00010		mg/L	1		SW-846 7470A	9/25/15	9/28/15 13:10	SCB
Nickel	ND	0.010		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Potassium	ND	2.0		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Selenium	ND	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Silver	ND	0.0050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Sodium	ND	2.0		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Thallium	ND	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Vanadium	ND	0.010		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH
Zinc	0.11	0.020		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:33	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: RB-092315

Sampled: 9/23/2015 14:15

Sample ID: 1511054-25

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Bromoform	ND	1.0	µg/L	1	V-05	SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Bromomethane	ND	2.0	µg/L	1	L-04, R-05, V-05	SW-846 8260C	10/1/15	10/1/15 12:44	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: RB-092315

Sampled: 9/23/2015 14:15

Sample ID: 1511054-25

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/1/15	10/1/15 12:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	10/1/15 12:44
Toluene-d8	101	70-130	10/1/15 12:44
4-Bromofluorobenzene	96.8	70-130	10/1/15 12:44

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: RB-092315

Sampled: 9/23/2015 14:15

Sample ID: 1511054-25

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Acetophenone	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Aniline	ND	5.0	µg/L	1	V-05	SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Anthracene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Benzidine	ND	20	µg/L	1	L-04, V-05	SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Benzoic Acid	ND	10	µg/L	1	R-05	SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Carbazole	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Chrysene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
1,2-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
1,3-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
1,4-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2,4-Dimethylphenol	ND	10	µg/L	1	R-05	SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2,4-Dinitrophenol	ND	10	µg/L	1	R-05, V-19	SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Fluorene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: RB-092315

Sampled: 9/23/2015 14:15

Sample ID: 1511054-25

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Isophorone	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
1-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
N-Nitrosodimethylamine	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Phenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Pyrene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1	V-05	SW-846 8270D	9/26/15	10/1/15 15:44	CMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/26/15	10/1/15 15:44	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	44.5	15-110	
Phenol-d6	29.5	15-110	
Nitrobenzene-d5	82.6	30-130	
2-Fluorobiphenyl	82.0	30-130	
2,4,6-Tribromophenol	79.6	15-110	
p-Terphenyl-d14	86.1	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: RB-092315

Sampled: 9/23/2015 14:15

Sample ID: 1511054-25

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Antimony	ND	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Arsenic	ND	0.010		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Barium	ND	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Cadmium	ND	0.0040		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Calcium	0.18	0.15		mg/L	1		SW-846 6010C	9/28/15	10/1/15 21:46	MJH
Chromium	ND	0.010		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Cobalt	ND	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Copper	0.019	0.010		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Iron	0.25	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Lead	ND	0.010		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Magnesium	ND	0.15		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Manganese	0.011	0.0		mg/L	1	B, B-07	SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Mercury	ND	0.00010		mg/L	1		SW-846 7470A	9/25/15	9/28/15 13:12	SCB
Nickel	ND	0.010		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Potassium	ND	2.0		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Selenium	ND	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Silver	ND	0.0050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Sodium	ND	2.0		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Thallium	ND	0.050		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Vanadium	ND	0.010		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH
Zinc	ND	0.020		mg/L	1		SW-846 6010C	9/28/15	10/1/15 18:29	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: DUP-01

Sampled: 9/22/2015 00:00

Sample ID: 1511054-26

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Acrylonitrile	ND	0.0061	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
tert-Butyl Alcohol (TBA)	ND	0.041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Carbon Disulfide	ND	0.0061	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: DUP-01

Sampled: 9/22/2015 00:00

Sample ID: 1511054-26

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 16:46	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 16:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	9/30/15 16:46
Toluene-d8	102	70-130	9/30/15 16:46
4-Bromofluorobenzene	97.4	70-130	9/30/15 16:46

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: DUP-01

Sampled: 9/22/2015 00:00

Sample ID: 1511054-26

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Benzidine	ND	0.72	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Benzo(a)anthracene	3.5	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Benzo(a)pyrene	4.2	0.74	mg/Kg dry	4		SW-846 8270D	9/25/15	9/28/15 10:55	CMR
Benzo(b)fluoranthene	6.0	0.74	mg/Kg dry	4		SW-846 8270D	9/25/15	9/28/15 10:55	CMR
Benzo(g,h,i)perylene	4.6	0.74	mg/Kg dry	4		SW-846 8270D	9/25/15	9/28/15 10:55	CMR
Benzo(k)fluoranthene	2.4	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
4-Chloroaniline	ND	0.72	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
4-Chloro-3-methylphenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Chrysene	3.5	0.74	mg/Kg dry	4		SW-846 8270D	9/25/15	9/28/15 10:55	CMR
Dibenz(a,h)anthracene	1.6	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1	R-05	SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Fluoranthene	3.8	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: DUP-01

Sampled: 9/22/2015 00:00

Sample ID: 1511054-26

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Hexachlorocyclopentadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Indeno(1,2,3-cd)pyrene	4.4	0.74	mg/Kg dry	4		SW-846 8270D	9/25/15	9/28/15 10:55	CMR
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
1-Methylnaphthalene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2-Methylnaphthalene	0.29	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Naphthalene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
4-Nitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
N-Nitrosodimethylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
N-Nitrosodiphenylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Phenanthrene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Pyrene	4.1	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:14	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		81.9	30-130					9/26/15 16:14	
Phenol-d6		81.6	30-130					9/26/15 16:14	
Nitrobenzene-d5		75.6	30-130					9/26/15 16:14	
2-Fluorobiphenyl		91.1	30-130					9/26/15 16:14	
2,4,6-Tribromophenol		86.4	30-130					9/26/15 16:14	
p-Terphenyl-d14		98.4	30-130					9/26/15 16:14	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: DUP-01

Sampled: 9/22/2015 00:00

Sample ID: 1511054-26

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6000	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:26	AME
Antimony	ND	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Arsenic	20	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Barium	46	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Beryllium	0.30	0.26		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Cadmium	0.64	0.26		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Calcium	77000	79		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 12:21	AME
Chromium	23	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Cobalt	4.2	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Copper	69	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Iron	28000	26		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 12:21	AME
Lead	110	0.79		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Magnesium	3500	7.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Manganese	480	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:26	AME
Mercury	0.27	0.026		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 13:57	SCB
Nickel	29	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Potassium	860	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:26	AME
Selenium	ND	5.3	3.2	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Silver	1.4	0.53		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Sodium	160	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:26	AME
Thallium	ND	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Vanadium	17	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH
Zinc	210	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:34	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Sampled: 9/22/2015 00:00

Field Sample #: DUP-01

Sample ID: 1511054-26

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.4		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: DUP-02

Sampled: 9/22/2015 00:00

Sample ID: 1511054-27

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Acrylonitrile	ND	0.0063	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
2-Butanone (MEK)	ND	0.042	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
tert-Butyl Alcohol (TBA)	ND	0.042	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Carbon Disulfide	ND	0.0063	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Chloroform	ND	0.0042	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
trans-1,4-Dichloro-2-butene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,1-Dichloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Diethyl Ether	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: DUP-02

Sampled: 9/22/2015 00:00

Sample ID: 1511054-27

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Naphthalene	ND	0.0042	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 17:18	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,3,5-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
m+p Xylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	9/30/15 17:18
Toluene-d8	101	70-130	9/30/15 17:18
4-Bromofluorobenzene	97.9	70-130	9/30/15 17:18

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: DUP-02

Sampled: 9/22/2015 00:00

Sample ID: 1511054-27

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Anthracene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Benzidine	ND	0.74	mg/Kg dry	1	V-04, V-05, R-05	SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Benzo(a)anthracene	0.90	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Benzo(a)pyrene	0.84	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Benzo(b)fluoranthene	1.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Benzo(g,h,i)perylene	0.55	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Benzo(k)fluoranthene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
4-Chloroaniline	ND	0.74	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
4-Chloro-3-methylphenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Chrysene	0.86	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1	R-05	SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Fluoranthene	2.0	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: DUP-02

Sampled: 9/22/2015 00:00

Sample ID: 1511054-27

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Indeno(1,2,3-cd)pyrene	0.58	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
1-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
N-Nitrosodimethylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Phenanthrene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Pyrene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:36	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		94.1	30-130					9/26/15 16:36	
Phenol-d6		89.0	30-130					9/26/15 16:36	
Nitrobenzene-d5		84.0	30-130					9/26/15 16:36	
2-Fluorobiphenyl		93.7	30-130					9/26/15 16:36	
2,4,6-Tribromophenol		95.2	30-130					9/26/15 16:36	
p-Terphenyl-d14		104	30-130					9/26/15 16:36	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: DUP-02

Sampled: 9/22/2015 00:00

Sample ID: 1511054-27

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3000	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:32	AME
Antimony	ND	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Arsenic	5.2	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Barium	21	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Beryllium	ND	0.29		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Cadmium	ND	0.29		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Calcium	31000	8.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Chromium	3.6	0.57		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Cobalt	ND	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Copper	2.3	0.57		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Iron	9800	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Lead	48	0.86		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Magnesium	1500	8.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Manganese	110	0.57		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:32	AME
Mercury	0.11	0.029		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 13:58	SCB
Nickel	2.1	0.57		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Potassium	530	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:32	AME
Selenium	ND	5.7	3.5	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Silver	0.78	0.57		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Sodium	ND	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:32	AME
Thallium	ND	2.9		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Vanadium	10	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH
Zinc	23	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:38	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Sampled: 9/22/2015 00:00

Field Sample #: DUP-02

Sample ID: 1511054-27

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.8		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-01-EA

Sampled: 9/23/2015 10:05

Sample ID: 1511054-28

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Acrylonitrile	ND	0.0053	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Bromochloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Bromomethane	ND	0.0089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
2-Butanone (MEK)	ND	0.036	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
tert-Butyl Alcohol (TBA)	ND	0.036	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Carbon Disulfide	ND	0.0053	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Chlorodibromomethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Chloroethane	ND	0.018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Chloroform	ND	0.0036	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Chloromethane	ND	0.0089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,2-Dibromoethane (EDB)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
trans-1,4-Dichloro-2-butene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,1-Dichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,3-Dichloropropane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
cis-1,3-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
trans-1,3-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Diethyl Ether	ND	0.018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-01-EA

Sampled: 9/23/2015 10:05

Sample ID: 1511054-28

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,4-Dioxane	ND	0.089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Methylene Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Naphthalene	ND	0.0036	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 17:50	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,1,2,2-Tetrachloroethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Tetrahydrofuran	ND	0.0089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Toluene	0.0028	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,3,5-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
Vinyl Chloride	ND	0.0089	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
m+p Xylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 17:50	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	9/30/15 17:50
Toluene-d8	102	70-130	9/30/15 17:50
4-Bromofluorobenzene	98.9	70-130	9/30/15 17:50

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-01-EA

Sampled: 9/23/2015 10:05

Sample ID: 1511054-28

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.29	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Acetophenone	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Aniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Anthracene	0.47	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Benzidine	ND	0.67	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Benzo(a)anthracene	2.8	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Benzo(a)pyrene	2.4	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Benzo(b)fluoranthene	3.3	0.86	mg/Kg dry	5		SW-846 8270D	9/25/15	9/28/15 11:17	CMR
Benzo(g,h,i)perylene	1.4	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Benzo(k)fluoranthene	1.5	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Benzoic Acid	ND	1.0	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
4-Bromophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Butylbenzylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Carbazole	1.6	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
4-Chloroaniline	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
4-Chloro-3-methylphenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2-Chloronaphthalene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2-Chlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
4-Chlorophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Chrysene	3.2	0.86	mg/Kg dry	5		SW-846 8270D	9/25/15	9/28/15 11:17	CMR
Dibenz(a,h)anthracene	0.53	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Dibenzofuran	0.39	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Di-n-butylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
1,2-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
1,3-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
1,4-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2,4-Dichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Diethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2,4-Dimethylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Dimethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2,4-Dinitrophenol	ND	0.67	mg/Kg dry	1	R-05	SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2,4-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2,6-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Di-n-octylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Fluoranthene	7.8	0.86	mg/Kg dry	5		SW-846 8270D	9/25/15	9/28/15 11:17	CMR
Fluorene	0.28	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-01-EA

Sampled: 9/23/2015 10:05

Sample ID: 1511054-28

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Hexachlorobutadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Hexachlorocyclopentadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Hexachloroethane	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Indeno(1,2,3-cd)pyrene	1.6	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Isophorone	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
1-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
3/4-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Naphthalene	0.57	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
3-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
4-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Nitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2-Nitrophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
4-Nitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
N-Nitrosodimethylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
N-Nitrosodiphenylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Pentachloronitrobenzene	ND	0.34	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Pentachlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Phenanthrene	5.6	0.86	mg/Kg dry	5		SW-846 8270D	9/25/15	9/28/15 11:17	CMR
Phenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Pyrene	5.6	0.86	mg/Kg dry	5		SW-846 8270D	9/25/15	9/28/15 11:17	CMR
Pyridine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2,4,5-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
2,4,6-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 16:59	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		84.1	30-130					9/26/15 16:59	
Phenol-d6		82.5	30-130					9/26/15 16:59	
Nitrobenzene-d5		80.4	30-130					9/26/15 16:59	
2-Fluorobiphenyl		91.4	30-130					9/26/15 16:59	
2,4,6-Tribromophenol		59.2	30-130					9/26/15 16:59	
p-Terphenyl-d14		103	30-130					9/26/15 16:59	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-01-EA

Sampled: 9/23/2015 10:05

Sample ID: 1511054-28

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7900	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:38	AME
Antimony	ND	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Arsenic	53	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Barium	45	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Beryllium	0.33	0.26		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Cadmium	ND	0.26		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Calcium	240000	78		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 12:29	AME
Chromium	8.9	0.52		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Cobalt	2.6	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Copper	2.5	0.52		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Iron	8100	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Lead	22	0.78		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Magnesium	9300	7.8		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Manganese	290	0.52		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:38	AME
Mercury	ND	0.024		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:06	SCB
Nickel	5.2	0.52		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Potassium	1500	100		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:38	AME
Selenium	ND	5.2	3.1	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Silver	ND	0.52		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Sodium	250	100		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:38	AME
Thallium	ND	2.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Vanadium	11	1.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH
Zinc	18	1.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:43	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Sampled: 9/23/2015 10:05

Field Sample #: CD-01-EA

Sample ID: 1511054-28

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.8		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-02-EA

Sampled: 9/23/2015 10:25

Sample ID: 1511054-29

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Acrylonitrile	ND	0.0062	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
tert-Butyl Alcohol (TBA)	ND	0.041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Carbon Disulfide	ND	0.0062	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Diethyl Ether	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-02-EA

Sampled: 9/23/2015 10:25

Sample ID: 1511054-29

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 18:22	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,3,5-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:22	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	9/30/15 18:22
Toluene-d8	102	70-130	9/30/15 18:22
4-Bromofluorobenzene	98.7	70-130	9/30/15 18:22

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-02-EA

Sampled: 9/23/2015 10:25

Sample ID: 1511054-29

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Benzidine	ND	0.68	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Benzidine	ND	0.68	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Benzo(a)anthracene	0.24	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Benzo(a)anthracene	0.20	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Benzo(b)fluoranthene	0.26	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Benzo(b)fluoranthene	0.23	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Benzoic Acid	ND	1.0	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Benzoic Acid	ND	1.0	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Carbazole	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
4-Chloroaniline	ND	0.68	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
4-Chloroaniline	ND	0.68	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
4-Chloro-3-methylphenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
4-Chloro-3-methylphenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-02-EA

Sampled: 9/23/2015 10:25

Sample ID: 1511054-29

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
4-Chlorophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
4-Chlorophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Chrysene	0.26	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Chrysene	0.23	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
4,6-Dinitro-2-methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
4,6-Dinitro-2-methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1	R-05	SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Fluoranthene	0.60	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Fluoranthene	0.50	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-02-EA

Sampled: 9/23/2015 10:25

Sample ID: 1511054-29

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Hexachlorocyclopentadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Hexachlorocyclopentadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
1-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
1-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
2-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
3-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
3-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
4-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
4-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
N-Nitrosodimethylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
N-Nitrosodimethylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
N-Nitrosodiphenylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
N-Nitrosodiphenylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
N-Nitrosodi-n-propylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
N-Nitrosodi-n-propylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Pentachloronitrobenzene	ND	0.35	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Pentachloronitrobenzene	ND	0.35	mg/Kg dry	1	V-16	SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-02-EA

Sampled: 9/23/2015 10:25

Sample ID: 1511054-29

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Phenanthrene	0.27	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Phenanthrene	0.23	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Pyrene	0.51	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Pyrene	0.49	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:28	CMR
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:00	CMR
Surrogates	% Recovery		Recovery Limits	Flag/Qual					
2-Fluorophenol	6.97	*	30-130	S-19		9/26/15 18:28			
2-Fluorophenol	8.92	*	30-130	S-19		9/29/15 16:00			
Phenol-d6	48.9		30-130			9/26/15 18:28			
Phenol-d6	56.2		30-130			9/29/15 16:00			
Nitrobenzene-d5	75.2		30-130			9/26/15 18:28			
Nitrobenzene-d5	76.3		30-130			9/29/15 16:00			
2-Fluorobiphenyl	101		30-130			9/26/15 18:28			
2-Fluorobiphenyl	105		30-130			9/29/15 16:00			
2,4,6-Tribromophenol	1.20	*	30-130	S-19		9/26/15 18:28			
2,4,6-Tribromophenol	1.52	*	30-130	S-19		9/29/15 16:00			
p-Terphenyl-d14	128		30-130			9/26/15 18:28			
p-Terphenyl-d14	133	*	30-130	S-07		9/29/15 16:00			

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-02-EA

Sampled: 9/23/2015 10:25

Sample ID: 1511054-29

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7100	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:42	AME
Antimony	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Arsenic	63	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Barium	58	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Beryllium	0.28	0.25		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Cadmium	ND	0.25		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Calcium	310000	75		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 12:33	AME
Chromium	8.4	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Cobalt	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Copper	0.71	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Iron	10000	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Lead	25	0.75		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Magnesium	7400	7.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Manganese	310	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:42	AME
Mercury	ND	0.025		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:08	SCB
Nickel	5.0	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Potassium	1400	100		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:42	AME
Selenium	ND	5.0	3.0	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Silver	ND	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Sodium	300	100		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:42	AME
Thallium	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Vanadium	11	1.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH
Zinc	20	1.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:47	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Sampled: 9/23/2015 10:25

Field Sample #: CD-02-EA

Sample ID: 1511054-29

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.9		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-03-EA

Sampled: 9/23/2015 15:00

Sample ID: 1511054-30

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Acrylonitrile	ND	0.0057	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Bromomethane	ND	0.0094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
2-Butanone (MEK)	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
tert-Butyl Alcohol (TBA)	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Carbon Disulfide	ND	0.0057	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Chlorodibromomethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Chloroform	ND	0.0038	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Chloromethane	ND	0.0094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,2-Dibromoethane (EDB)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
trans-1,4-Dichloro-2-butene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,1-Dichloroethylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,3-Dichloropropane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
cis-1,3-Dichloropropene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
trans-1,3-Dichloropropene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Diethyl Ether	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-03-EA

Sampled: 9/23/2015 15:00

Sample ID: 1511054-30

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,4-Dioxane	ND	0.094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Naphthalene	ND	0.0038	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 18:53	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Tetrahydrofuran	ND	0.0094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,3,5-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
Vinyl Chloride	ND	0.0094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
m+p Xylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 18:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	9/30/15 18:53
Toluene-d8	102	70-130	9/30/15 18:53
4-Bromofluorobenzene	97.8	70-130	9/30/15 18:53

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-03-EA

Sampled: 9/23/2015 15:00

Sample ID: 1511054-30

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Benzidine	ND	0.70	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Benzidine	ND	0.69	mg/Kg dry	1	V-05, V-04	SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Benzoic Acid	ND	1.0	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
4-Chloroaniline	ND	0.70	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
4-Chloroaniline	ND	0.69	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
4-Chloro-3-methylphenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
4-Chloro-3-methylphenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-03-EA

Sampled: 9/23/2015 15:00

Sample ID: 1511054-30

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
4-Chlorophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
4-Chlorophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
4,6-Dinitro-2-methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
4,6-Dinitro-2-methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1	R-05	SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2,4-Dinitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-03-EA

Sampled: 9/23/2015 15:00

Sample ID: 1511054-30

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Hexachlorocyclopentadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Hexachlorocyclopentadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
1-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
1-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
2-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
3-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
3-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
4-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
4-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
4-Nitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
N-Nitrosodimethylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
N-Nitrosodimethylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
N-Nitrosodiphenylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
N-Nitrosodiphenylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
N-Nitrosodi-n-propylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
N-Nitrosodi-n-propylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Pentachloronitrobenzene	ND	0.36	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Pentachloronitrobenzene	ND	0.36	mg/Kg dry	1	V-16	SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-03-EA

Sampled: 9/23/2015 15:00

Sample ID: 1511054-30

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 18:51	CMR
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:23	CMR
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	30.1		30-130			9/26/15 18:51			
2-Fluorophenol	21.5 *		30-130		S-19	9/29/15 16:23			
Phenol-d6	77.5		30-130			9/26/15 18:51			
Phenol-d6	63.5		30-130			9/29/15 16:23			
Nitrobenzene-d5	74.3		30-130			9/26/15 18:51			
Nitrobenzene-d5	71.0		30-130			9/29/15 16:23			
2-Fluorobiphenyl	99.3		30-130			9/26/15 18:51			
2-Fluorobiphenyl	88.9		30-130			9/29/15 16:23			
2,4,6-Tribromophenol	5.27 *		30-130		S-19	9/26/15 18:51			
2,4,6-Tribromophenol	7.34 *		30-130		S-19	9/29/15 16:23			
p-Terphenyl-d14	118		30-130			9/26/15 18:51			
p-Terphenyl-d14	104		30-130			9/29/15 16:23			

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-03-EA

Sampled: 9/23/2015 15:00

Sample ID: 1511054-30

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	8500	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:47	AME
Antimony	ND	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Arsenic	39	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Barium	200	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Beryllium	0.31	0.27		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Cadmium	ND	0.27		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Calcium	190000	80		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 12:54	AME
Chromium	8.5	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Cobalt	ND	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Copper	3.3	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Iron	6400	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Lead	16	0.80		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Magnesium	7800	8.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Manganese	210	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:47	AME
Mercury	ND	0.026		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:09	SCB
Nickel	4.7	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Potassium	2100	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:47	AME
Selenium	ND	5.4	3.2	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Silver	ND	0.54		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Sodium	520	110		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:47	AME
Thallium	ND	2.7		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Vanadium	8.5	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH
Zinc	16	1.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 21:51	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-03-EA

Sampled: 9/23/2015 15:00

Sample ID: 1511054-30

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.8		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-04-EA

Sampled: 9/23/2015 10:55

Sample ID: 1511054-31

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Acrylonitrile	ND	0.0061	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
tert-Butyl Alcohol (TBA)	ND	0.041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Carbon Disulfide	ND	0.0061	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-04-EA

Sampled: 9/23/2015 10:55

Sample ID: 1511054-31

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 19:25	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	9/30/15 19:25
Toluene-d8	102	70-130	9/30/15 19:25
4-Bromofluorobenzene	98.6	70-130	9/30/15 19:25

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-04-EA

Sampled: 9/23/2015 10:55

Sample ID: 1511054-31

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Acetophenone	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Aniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Benzidine	ND	0.67	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Benzidine	ND	0.67	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Benzoic Acid	ND	1.0	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Benzoic Acid	ND	1.0	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
4-Bromophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Butylbenzylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Carbazole	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Carbazole	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
4-Chloroaniline	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
4-Chloroaniline	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
4-Chloro-3-methylphenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
4-Chloro-3-methylphenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2-Chloronaphthalene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-04-EA

Sampled: 9/23/2015 10:55

Sample ID: 1511054-31

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2-Chlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
4-Chlorophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
4-Chlorophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Dibenzofuran	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Di-n-butylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
1,2-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
1,3-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
1,4-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2,4-Dichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Diethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2,4-Dimethylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Dimethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
4,6-Dinitro-2-methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
2,4-Dinitrophenol	ND	0.67	mg/Kg dry	1	R-05	SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2,4-Dinitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2,4-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2,6-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Di-n-octylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-04-EA

Sampled: 9/23/2015 10:55

Sample ID: 1511054-31

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Hexachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Hexachlorobutadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Hexachlorocyclopentadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Hexachlorocyclopentadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Hexachloroethane	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Isophorone	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
1-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
1-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
3/4-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
2-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
3-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
3-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
4-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
4-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Nitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2-Nitrophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
4-Nitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
4-Nitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
N-Nitrosodimethylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
N-Nitrosodimethylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
N-Nitrosodiphenylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
N-Nitrosodiphenylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
N-Nitrosodi-n-propylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Pentachloronitrobenzene	ND	0.35	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Pentachloronitrobenzene	ND	0.34	mg/Kg dry	1	V-16	SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Pentachlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-04-EA

Sampled: 9/23/2015 10:55

Sample ID: 1511054-31

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Phenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
Pyridine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2,4,5-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:13	CMR
2,4,6-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 16:46	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		10.5 *	30-130		S-19			9/26/15 19:13	
2-Fluorophenol		25.1 *	30-130		S-19			9/29/15 16:46	
Phenol-d6		54.4	30-130					9/26/15 19:13	
Phenol-d6		61.1	30-130					9/29/15 16:46	
Nitrobenzene-d5		78.4	30-130					9/26/15 19:13	
Nitrobenzene-d5		63.9	30-130					9/29/15 16:46	
2-Fluorobiphenyl		97.6	30-130					9/26/15 19:13	
2-Fluorobiphenyl		81.6	30-130					9/29/15 16:46	
2,4,6-Tribromophenol		0.715 *	30-130		S-19			9/26/15 19:13	
2,4,6-Tribromophenol		1.70 *	30-130		S-19			9/29/15 16:46	
p-Terphenyl-d14		113	30-130					9/26/15 19:13	
p-Terphenyl-d14		96.2	30-130					9/29/15 16:46	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-04-EA

Sampled: 9/23/2015 10:55

Sample ID: 1511054-31

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4900	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:52	AME
Antimony	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Arsenic	54	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Barium	41	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Beryllium	0.26	0.25		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Cadmium	ND	0.25		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Calcium	260000	76		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 12:58	AME
Chromium	7.1	0.51		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Cobalt	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Copper	3.1	0.51		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Iron	8500	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Lead	23	0.76		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Magnesium	6900	7.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Manganese	240	0.51		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:52	AME
Mercury	ND	0.024		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:11	SCB
Nickel	5.2	0.51		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Potassium	1000	100		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:52	AME
Selenium	ND	5.1	3.1	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Silver	ND	0.51		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Sodium	290	100		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:52	AME
Thallium	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Vanadium	12	1.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH
Zinc	18	1.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:11	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Sampled: 9/23/2015 10:55

Field Sample #: CD-04-EA

Sample ID: 1511054-31

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.4		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-05-EA

Sampled: 9/23/2015 12:00

Sample ID: 1511054-32

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Acrylonitrile	ND	0.0056	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Bromomethane	ND	0.0094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
2-Butanone (MEK)	ND	0.037	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
tert-Butyl Alcohol (TBA)	ND	0.037	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Carbon Disulfide	ND	0.0056	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Chlorodibromomethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Chloroform	ND	0.0037	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Chloromethane	ND	0.0094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,2-Dibromoethane (EDB)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
trans-1,4-Dichloro-2-butene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,1-Dichloroethylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,3-Dichloropropane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
cis-1,3-Dichloropropene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
trans-1,3-Dichloropropene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Diethyl Ether	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-05-EA

Sampled: 9/23/2015 12:00

Sample ID: 1511054-32

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,4-Dioxane	ND	0.094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Naphthalene	ND	0.0037	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 19:57	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,1,2,2-Tetrachloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Tetrahydrofuran	ND	0.0094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,3,5-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
Vinyl Chloride	ND	0.0094	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
m+p Xylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	9/30/15	9/30/15 19:57	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	9/30/15 19:57
Toluene-d8	101	70-130	9/30/15 19:57
4-Bromofluorobenzene	98.3	70-130	9/30/15 19:57

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-05-EA

Sampled: 9/23/2015 12:00

Sample ID: 1511054-32

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Acetophenone	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Aniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Benzidine	ND	0.67	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Benzoic Acid	ND	1.0	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
4-Bromophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Butylbenzylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Carbazole	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
4-Chloroaniline	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
4-Chloro-3-methylphenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2-Chloronaphthalene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2-Chlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
4-Chlorophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Dibenzofuran	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Di-n-butylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
1,2-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
1,3-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
1,4-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2,4-Dichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Diethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2,4-Dimethylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Dimethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2,4-Dinitrophenol	ND	0.67	mg/Kg dry	1	R-05	SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2,4-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2,6-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Di-n-octylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-05-EA

Sampled: 9/23/2015 12:00

Sample ID: 1511054-32

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Hexachlorobutadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Hexachlorocyclopentadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Hexachloroethane	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Isophorone	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
1-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
3/4-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
3-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
4-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Nitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2-Nitrophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
4-Nitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
N-Nitrosodimethylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
N-Nitrosodiphenylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Pentachloronitrobenzene	ND	0.34	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Pentachlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Phenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
Pyridine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2,4,5-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR
2,4,6-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:35	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	38.0	30-130	
Phenol-d6	59.2	30-130	
Nitrobenzene-d5	59.6	30-130	
2-Fluorobiphenyl	77.6	30-130	
2,4,6-Tribromophenol	10.0	30-130	S-07
p-Terphenyl-d14	97.7	30-130	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-05-EA

Sampled: 9/23/2015 12:00

Sample ID: 1511054-32

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	10000	2.4		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:57	AME
Antimony	ND	2.4		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Arsenic	42	2.4		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Barium	100	2.4		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Beryllium	0.86	0.24		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Cadmium	ND	0.24		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Calcium	200000	71		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 13:02	AME
Chromium	6.6	0.47		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Cobalt	ND	2.4		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Copper	5.1	0.47		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Iron	8800	2.4		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Lead	22	0.71		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Magnesium	7500	7.1		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Manganese	930	0.47		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:57	AME
Mercury	0.072	0.024		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:12	SCB
Nickel	4.7	0.47		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Potassium	1300	95		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:57	AME
Selenium	ND	4.7	2.9	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Silver	ND	0.47		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Sodium	380	95		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 11:57	AME
Thallium	ND	2.4		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Vanadium	9.2	0.95		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH
Zinc	19	0.95		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:15	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-05-EA

Sampled: 9/23/2015 12:00

Sample ID: 1511054-32

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.8		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-06-EA

Sampled: 9/23/2015 14:00

Sample ID: 1511054-33

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Acrylonitrile	ND	0.0057	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Bromomethane	ND	0.0095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
2-Butanone (MEK)	ND	0.038	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
tert-Butyl Alcohol (TBA)	ND	0.038	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Carbon Disulfide	ND	0.0057	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Chlorodibromomethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Chloroform	ND	0.0038	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Chloromethane	ND	0.0095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,2-Dibromoethane (EDB)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
trans-1,4-Dichloro-2-butene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,1-Dichloroethylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,3-Dichloropropane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
cis-1,3-Dichloropropene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
trans-1,3-Dichloropropene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Diethyl Ether	ND	0.019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-06-EA

Sampled: 9/23/2015 14:00

Sample ID: 1511054-33

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,4-Dioxane	ND	0.095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Naphthalene	ND	0.0038	mg/Kg dry	1	V-05	SW-846 8260C	10/1/15	10/1/15 16:35	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Tetrahydrofuran	ND	0.0095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,3,5-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
Vinyl Chloride	ND	0.0095	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
m+p Xylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 16:35	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	10/1/15 16:35
Toluene-d8	102	70-130	10/1/15 16:35
4-Bromofluorobenzene	99.4	70-130	10/1/15 16:35

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-06-EA

Sampled: 9/23/2015 14:00

Sample ID: 1511054-33

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Benzidine	ND	0.68	mg/Kg dry	1	V-05, R-05, V-04	SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Benzoic Acid	ND	1.0	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
4-Chloroaniline	ND	0.68	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
4-Chloro-3-methylphenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
4-Chlorophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
4,6-Dinitro-2-methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1	R-05	SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-06-EA

Sampled: 9/23/2015 14:00

Sample ID: 1511054-33

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Hexachlorocyclopentadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
1-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
3-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
4-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
N-Nitrosodimethylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
N-Nitrosodiphenylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
N-Nitrosodi-n-propylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Pentachloronitrobenzene	ND	0.35	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 19:57	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	96.2	30-130	9/26/15 19:57
Phenol-d6	89.5	30-130	9/26/15 19:57
Nitrobenzene-d5	80.8	30-130	9/26/15 19:57
2-Fluorobiphenyl	98.2	30-130	9/26/15 19:57
2,4,6-Tribromophenol	116	30-130	9/26/15 19:57
p-Terphenyl-d14	118	30-130	9/26/15 19:57

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-06-EA

Sampled: 9/23/2015 14:00

Sample ID: 1511054-33

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	12000	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 12:02	AME
Antimony	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Arsenic	48	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Barium	130	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Beryllium	0.52	0.25		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Cadmium	ND	0.25		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Calcium	230000	74		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 13:07	AME
Chromium	160	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Cobalt	7.0	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Copper	6.9	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Iron	12000	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Lead	17	0.74		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Magnesium	13000	7.4		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Manganese	230	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 12:02	AME
Mercury	ND	0.025		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:14	SCB
Nickel	28	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Potassium	3700	99		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 12:02	AME
Selenium	ND	5.0	3.0	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Silver	ND	0.50		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Sodium	980	99		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 12:02	AME
Thallium	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Vanadium	24	0.99		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH
Zinc	35	0.99		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:19	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-06-EA

Sampled: 9/23/2015 14:00

Sample ID: 1511054-33

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.0		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-07-EA

Sampled: 9/23/2015 14:05

Sample ID: 1511054-34

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Acrylonitrile	ND	0.0059	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Bromomethane	ND	0.0099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Carbon Disulfide	ND	0.0059	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Chlorodibromomethane	ND	0.00099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Chloromethane	ND	0.0099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,2-Dibromoethane (EDB)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,3-Dichloropropane	ND	0.00099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
cis-1,3-Dichloropropene	ND	0.00099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
trans-1,3-Dichloropropene	ND	0.00099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-07-EA

Sampled: 9/23/2015 14:05

Sample ID: 1511054-34

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,4-Dioxane	ND	0.099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Naphthalene	ND	0.0040	mg/Kg dry	1	V-05	SW-846 8260C	10/1/15	10/1/15 17:07	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.00099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Tetrahydrofuran	ND	0.0099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Toluene	0.0023	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1	V-05	SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
Vinyl Chloride	ND	0.0099	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/1/15	10/1/15 17:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	10/1/15 17:07
Toluene-d8	102	70-130	10/1/15 17:07
4-Bromofluorobenzene	97.9	70-130	10/1/15 17:07

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-07-EA

Sampled: 9/23/2015 14:05

Sample ID: 1511054-34

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Acetophenone	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Acetophenone	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Aniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Aniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Benzidine	ND	0.67	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Benzidine	ND	0.67	mg/Kg dry	1	V-04, V-05	SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Benzo(a)pyrene	0.17	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Benzo(a)pyrene	0.24	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Benzo(b)fluoranthene	0.21	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Benzo(b)fluoranthene	0.26	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Benzoic Acid	ND	1.0	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Benzoic Acid	ND	1.0	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
4-Bromophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
4-Bromophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Butylbenzylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Butylbenzylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Carbazole	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Carbazole	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
4-Chloroaniline	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
4-Chloroaniline	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
4-Chloro-3-methylphenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
4-Chloro-3-methylphenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
2-Chloronaphthalene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2-Chloronaphthalene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-07-EA

Sampled: 9/23/2015 14:05

Sample ID: 1511054-34

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Chlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2-Chlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
4-Chlorophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
4-Chlorophenylphenylether	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Dibenzofuran	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Dibenzofuran	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Di-n-butylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Di-n-butylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
1,2-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
1,2-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
1,3-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
1,3-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
1,4-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
1,4-Dichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
2,4-Dichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2,4-Dichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Diethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Diethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
2,4-Dimethylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2,4-Dimethylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Dimethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Dimethylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
2,4-Dinitrophenol	ND	0.67	mg/Kg dry	1	R-05	SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2,4-Dinitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
2,4-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2,4-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
2,6-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2,6-Dinitrotoluene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Di-n-octylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Di-n-octylphthalate	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-07-EA

Sampled: 9/23/2015 14:05

Sample ID: 1511054-34

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Hexachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Hexachlorobutadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Hexachlorobutadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Hexachlorocyclopentadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Hexachlorocyclopentadiene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Hexachloroethane	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Hexachloroethane	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Isophorone	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Isophorone	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
1-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
1-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
2-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
3/4-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
3/4-Methylphenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
2-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
3-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
3-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
4-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
4-Nitroaniline	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Nitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Nitrobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
2-Nitrophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2-Nitrophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
4-Nitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
4-Nitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
N-Nitrosodimethylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
N-Nitrosodimethylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
N-Nitrosodiphenylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
N-Nitrosodiphenylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Pentachloronitrobenzene	ND	0.34	mg/Kg dry	1	V-16	SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Pentachloronitrobenzene	ND	0.34	mg/Kg dry	1	V-16	SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Pentachlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Pentachlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-07-EA

Sampled: 9/23/2015 14:05

Sample ID: 1511054-34

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Phenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Phenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Pyridine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
Pyridine	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
2,4,5-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2,4,5-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
2,4,6-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/25/15	9/26/15 20:19	CMR
2,4,6-Trichlorophenol	ND	0.34	mg/Kg dry	1		SW-846 8270D	9/28/15	9/29/15 17:09	CMR
Surrogates	% Recovery		Recovery Limits	Flag/Qual					
2-Fluorophenol	3.60	*	30-130					9/26/15 20:19	
2-Fluorophenol	14.4	*	30-130					9/29/15 17:09	
Phenol-d6	37.0		30-130					9/26/15 20:19	
Phenol-d6	52.3		30-130					9/29/15 17:09	
Nitrobenzene-d5	69.4		30-130					9/26/15 20:19	
Nitrobenzene-d5	81.4		30-130					9/29/15 17:09	
2-Fluorobiphenyl	98.4		30-130					9/26/15 20:19	
2-Fluorobiphenyl	107		30-130					9/29/15 17:09	
2,4,6-Tribromophenol	2.61	*	30-130	S-19				9/26/15 20:19	
2,4,6-Tribromophenol	6.34	*	30-130	S-19				9/29/15 17:09	
p-Terphenyl-d14	124		30-130					9/26/15 20:19	
p-Terphenyl-d14	132	*	30-130	S-07				9/29/15 17:09	

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Field Sample #: CD-07-EA

Sampled: 9/23/2015 14:05

Sample ID: 1511054-34

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6200	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 12:06	AME
Antimony	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Arsenic	54	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Barium	46	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Beryllium	0.31	0.25		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Cadmium	6.2	0.25		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Calcium	230000	76		mg/Kg dry	10		SW-846 6010C	9/25/15	10/3/15 13:16	AME
Chromium	7.4	0.51		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Cobalt	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Copper	5.0	0.51		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Iron	6800	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Lead	32	0.76		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Magnesium	6000	7.6		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Manganese	510	0.51		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 12:06	AME
Mercury	0.090	0.024		mg/Kg dry	1		SW-846 7471B	9/25/15	9/29/15 14:15	SCB
Nickel	7.1	0.51		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Potassium	2000	100		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 12:06	AME
Selenium	ND	5.1	3.1	mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Silver	ND	0.51		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Sodium	470	100		mg/Kg dry	1		SW-846 6010C	9/25/15	10/3/15 12:06	AME
Thallium	ND	2.5		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Vanadium	9.7	1.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH
Zinc	370	1.0		mg/Kg dry	1		SW-846 6010C	9/25/15	9/30/15 22:23	MJH

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Project Location: Sewall's Island

Sample Description:

Work Order: 1511054

Date Received: 9/24/2015

Sampled: 9/23/2015 14:05

Field Sample #: CD-07-EA

Sample ID: 1511054-34

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.9		% Wt	1		SM 2540G	9/24/15	9/25/15 9:16	DRA

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
15I1054-01 [SS-43-EA-0-2]	B131473	09/24/15
15I1054-02 [SS-44-EA-0-2]	B131473	09/24/15
15I1054-03 [SS-45-EA-0-2]	B131473	09/24/15
15I1054-04 [SS-46-EA-0-2]	B131473	09/24/15
15I1054-05 [SS-47-EA-0-1]	B131473	09/24/15
15I1054-06 [SS-48-EA-0-1]	B131473	09/24/15
15I1054-07 [SS-49-EA-0-2]	B131473	09/24/15
15I1054-08 [SS-50-EA-0-2]	B131473	09/24/15
15I1054-09 [SS-51-EA-0-1]	B131473	09/24/15
15I1054-10 [SS-52-EA-0-1]	B131473	09/24/15
15I1054-11 [SS-53-EA-0-1]	B131473	09/24/15
15I1054-12 [SS-54-EA-0-2]	B131473	09/24/15
15I1054-13 [SS-55-EA-0-2]	B131473	09/24/15
15I1054-14 [SS-56-EA-0-1]	B131473	09/24/15
15I1054-15 [SS-57-EA-0-1]	B131473	09/24/15
15I1054-16 [SS-58-EA-0-1]	B131473	09/24/15
15I1054-17 [SS-59-EA-0-1]	B131473	09/24/15
15I1054-18 [SS-60-EA-0-1]	B131473	09/24/15
15I1054-19 [SS-61-EA-0-1]	B131473	09/24/15
15I1054-20 [SS-62-EA-0-1]	B131473	09/24/15
15I1054-21 [SS-63-EA-0-1]	B131473	09/24/15
15I1054-22 [SS-64-EA-0-1]	B131473	09/24/15
15I1054-23 [SS-65-EA-0-1]	B131473	09/24/15
15I1054-26 [DUP-01]	B131473	09/24/15
15I1054-27 [DUP-02]	B131473	09/24/15
15I1054-28 [CD-01-EA]	B131473	09/24/15
15I1054-29 [CD-02-EA]	B131473	09/24/15
15I1054-30 [CD-03-EA]	B131473	09/24/15
15I1054-31 [CD-04-EA]	B131473	09/24/15
15I1054-32 [CD-05-EA]	B131473	09/24/15
15I1054-33 [CD-06-EA]	B131473	09/24/15
15I1054-34 [CD-07-EA]	B131473	09/24/15

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-01 [SS-43-EA-0-2]	B131516	0.987	50.0	09/25/15
15I1054-02 [SS-44-EA-0-2]	B131516	1.04	50.0	09/25/15
15I1054-03 [SS-45-EA-0-2]	B131516	0.968	50.0	09/25/15
15I1054-04 [SS-46-EA-0-2]	B131516	0.996	50.0	09/25/15
15I1054-05 [SS-47-EA-0-1]	B131516	1.09	50.0	09/25/15
15I1054-06 [SS-48-EA-0-1]	B131516	1.10	50.0	09/25/15
15I1054-07 [SS-49-EA-0-2]	B131516	1.05	50.0	09/25/15
15I1054-08 [SS-50-EA-0-2]	B131516	1.05	50.0	09/25/15
15I1054-09 [SS-51-EA-0-1]	B131516	1.04	50.0	09/25/15
15I1054-10 [SS-52-EA-0-1]	B131516	1.01	50.0	09/25/15
15I1054-11 [SS-53-EA-0-1]	B131516	1.00	50.0	09/25/15
15I1054-12 [SS-54-EA-0-2]	B131516	1.04	50.0	09/25/15
15I1054-13 [SS-55-EA-0-2]	B131516	1.04	50.0	09/25/15
15I1054-14 [SS-56-EA-0-1]	B131516	1.07	50.0	09/25/15
15I1054-15 [SS-57-EA-0-1]	B131516	1.05	50.0	09/25/15
15I1054-16 [SS-58-EA-0-1]	B131516	0.998	50.0	09/25/15
15I1054-17 [SS-59-EA-0-1]	B131516	1.02	50.0	09/25/15
15I1054-18 [SS-60-EA-0-1]	B131516	1.09	50.0	09/25/15

Sample Extraction Data

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-19 [SS-61-EA-0-1]	B131516	1.03	50.0	09/25/15
15I1054-20 [SS-62-EA-0-1]	B131516	1.09	50.0	09/25/15

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-21 [SS-63-EA-0-1]	B131517	1.01	50.0	09/25/15
15I1054-22 [SS-64-EA-0-1]	B131517	0.990	50.0	09/25/15
15I1054-23 [SS-65-EA-0-1]	B131517	1.00	50.0	09/25/15
15I1054-26 [DUP-01]	B131517	1.03	50.0	09/25/15
15I1054-27 [DUP-02]	B131517	0.982	50.0	09/25/15
15I1054-28 [CD-01-EA]	B131517	0.972	50.0	09/25/15
15I1054-29 [CD-02-EA]	B131517	1.03	50.0	09/25/15
15I1054-30 [CD-03-EA]	B131517	0.983	50.0	09/25/15
15I1054-31 [CD-04-EA]	B131517	1.00	50.0	09/25/15
15I1054-32 [CD-05-EA]	B131517	1.07	50.0	09/25/15
15I1054-33 [CD-06-EA]	B131517	1.04	50.0	09/25/15
15I1054-34 [CD-07-EA]	B131517	1.00	50.0	09/25/15

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-01RE1 [SS-43-EA-0-2]	B132301	1.01	50.0	10/06/15
15I1054-02RE1 [SS-44-EA-0-2]	B132301	1.07	50.0	10/06/15
15I1054-03RE1 [SS-45-EA-0-2]	B132301	1.07	50.0	10/06/15
15I1054-04RE1 [SS-46-EA-0-2]	B132301	1.01	50.0	10/06/15
15I1054-05RE1 [SS-47-EA-0-1]	B132301	0.990	50.0	10/06/15
15I1054-06RE1 [SS-48-EA-0-1]	B132301	1.09	50.0	10/06/15
15I1054-07RE1 [SS-49-EA-0-2]	B132301	1.06	50.0	10/06/15
15I1054-08RE1 [SS-50-EA-0-2]	B132301	1.02	50.0	10/06/15
15I1054-09RE1 [SS-51-EA-0-1]	B132301	1.01	50.0	10/06/15
15I1054-10RE1 [SS-52-EA-0-1]	B132301	1.06	50.0	10/06/15
15I1054-11RE1 [SS-53-EA-0-1]	B132301	1.07	50.0	10/06/15
15I1054-12RE1 [SS-54-EA-0-2]	B132301	1.08	50.0	10/06/15
15I1054-13RE1 [SS-55-EA-0-2]	B132301	1.01	50.0	10/06/15
15I1054-14RE1 [SS-56-EA-0-1]	B132301	1.07	50.0	10/06/15
15I1054-15RE1 [SS-57-EA-0-1]	B132301	1.02	50.0	10/06/15
15I1054-16RE1 [SS-58-EA-0-1]	B132301	1.02	50.0	10/06/15
15I1054-17RE1 [SS-59-EA-0-1]	B132301	1.09	50.0	10/06/15
15I1054-18RE1 [SS-60-EA-0-1]	B132301	1.08	50.0	10/06/15
15I1054-19RE1 [SS-61-EA-0-1]	B132301	0.994	50.0	10/06/15
15I1054-20RE1 [SS-62-EA-0-1]	B132301	1.01	50.0	10/06/15

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15I1054-24 [RB-092215]	B131680	50.0	50.0	09/28/15
15I1054-25 [RB-092315]	B131680	50.0	50.0	09/28/15

Sample Extraction Data

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15I1054-24 [RB-092215]	B131550	6.00	6.00	09/25/15
15I1054-25 [RB-092315]	B131550	6.00	6.00	09/25/15

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-01 [SS-43-EA-0-2]	B131514	0.676	50.0	09/25/15
15I1054-02 [SS-44-EA-0-2]	B131514	0.596	50.0	09/25/15
15I1054-03 [SS-45-EA-0-2]	B131514	0.582	50.0	09/25/15
15I1054-04 [SS-46-EA-0-2]	B131514	0.607	50.0	09/25/15
15I1054-05 [SS-47-EA-0-1]	B131514	0.651	50.0	09/25/15
15I1054-06 [SS-48-EA-0-1]	B131514	0.634	50.0	09/25/15
15I1054-07 [SS-49-EA-0-2]	B131514	0.632	50.0	09/25/15
15I1054-08 [SS-50-EA-0-2]	B131514	0.622	50.0	09/25/15
15I1054-09 [SS-51-EA-0-1]	B131514	0.626	50.0	09/25/15
15I1054-10 [SS-52-EA-0-1]	B131514	0.637	50.0	09/25/15
15I1054-11 [SS-53-EA-0-1]	B131514	0.640	50.0	09/25/15
15I1054-12 [SS-54-EA-0-2]	B131514	0.599	50.0	09/25/15
15I1054-13 [SS-55-EA-0-2]	B131514	0.646	50.0	09/25/15
15I1054-14 [SS-56-EA-0-1]	B131514	0.647	50.0	09/25/15
15I1054-15 [SS-57-EA-0-1]	B131514	0.689	50.0	09/25/15
15I1054-16 [SS-58-EA-0-1]	B131514	0.686	50.0	09/25/15
15I1054-17 [SS-59-EA-0-1]	B131514	0.599	50.0	09/25/15
15I1054-18 [SS-60-EA-0-1]	B131514	0.621	50.0	09/25/15
15I1054-19 [SS-61-EA-0-1]	B131514	0.642	50.0	09/25/15
15I1054-20 [SS-62-EA-0-1]	B131514	0.634	50.0	09/25/15

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-21 [SS-63-EA-0-1]	B131515	0.607	50.0	09/25/15
15I1054-22 [SS-64-EA-0-1]	B131515	0.619	50.0	09/25/15
15I1054-23 [SS-65-EA-0-1]	B131515	0.668	50.0	09/25/15
15I1054-26 [DUP-01]	B131515	0.643	50.0	09/25/15
15I1054-27 [DUP-02]	B131515	0.579	50.0	09/25/15
15I1054-28 [CD-01-EA]	B131515	0.634	50.0	09/25/15
15I1054-29 [CD-02-EA]	B131515	0.612	50.0	09/25/15
15I1054-30 [CD-03-EA]	B131515	0.611	50.0	09/25/15
15I1054-31 [CD-04-EA]	B131515	0.644	50.0	09/25/15
15I1054-32 [CD-05-EA]	B131515	0.630	50.0	09/25/15
15I1054-33 [CD-06-EA]	B131515	0.620	50.0	09/25/15
15I1054-34 [CD-07-EA]	B131515	0.621	50.0	09/25/15

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-01 [SS-43-EA-0-2]	B131664	5.10	10.0	09/28/15
15I1054-02 [SS-44-EA-0-2]	B131664	5.40	10.0	09/28/15
15I1054-03 [SS-45-EA-0-2]	B131664	5.00	10.0	09/28/15
15I1054-04 [SS-46-EA-0-2]	B131664	5.20	10.0	09/28/15
15I1054-05 [SS-47-EA-0-1]	B131664	5.70	10.0	09/28/15

Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-06 [SS-48-EA-0-1]	B131664	5.40	10.0	09/28/15
15I1054-07 [SS-49-EA-0-2]	B131664	5.40	10.0	09/28/15
15I1054-09 [SS-51-EA-0-1]	B131664	5.70	10.0	09/28/15
15I1054-10 [SS-52-EA-0-1]	B131664	5.60	10.0	09/28/15
15I1054-11 [SS-53-EA-0-1]	B131664	5.70	10.0	09/28/15
15I1054-12 [SS-54-EA-0-2]	B131664	5.20	10.0	09/28/15
15I1054-13 [SS-55-EA-0-2]	B131664	5.30	10.0	09/28/15

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-08 [SS-50-EA-0-2]	B131742	4.70	10.0	09/29/15
15I1054-14 [SS-56-EA-0-1]	B131742	4.90	10.0	09/29/15
15I1054-15 [SS-57-EA-0-1]	B131742	5.00	10.0	09/29/15
15I1054-16 [SS-58-EA-0-1]	B131742	5.90	10.0	09/29/15
15I1054-17 [SS-59-EA-0-1]	B131742	5.10	10.0	09/29/15
15I1054-18 [SS-60-EA-0-1]	B131742	5.10	10.0	09/29/15

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-19 [SS-61-EA-0-1]	B131850	5.20	10.0	09/30/15
15I1054-20 [SS-62-EA-0-1]	B131850	5.10	10.0	09/30/15
15I1054-21 [SS-63-EA-0-1]	B131850	5.50	10.0	09/30/15
15I1054-22 [SS-64-EA-0-1]	B131850	5.30	10.0	09/30/15
15I1054-23 [SS-65-EA-0-1]	B131850	5.50	10.0	09/30/15
15I1054-26 [DUP-01]	B131850	5.40	10.0	09/30/15
15I1054-27 [DUP-02]	B131850	5.40	10.0	09/30/15
15I1054-28 [CD-01-EA]	B131850	5.70	10.0	09/30/15
15I1054-29 [CD-02-EA]	B131850	5.00	10.0	09/30/15
15I1054-30 [CD-03-EA]	B131850	5.60	10.0	09/30/15
15I1054-31 [CD-04-EA]	B131850	5.00	10.0	09/30/15
15I1054-32 [CD-05-EA]	B131850	5.40	10.0	09/30/15

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-33 [CD-06-EA]	B132032	5.40	10.0	10/01/15
15I1054-34 [CD-07-EA]	B132032	5.10	10.0	10/01/15

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15I1054-24 [RB-092215]	B131920	5	5.00	10/01/15
15I1054-25 [RB-092315]	B131920	5	5.00	10/01/15

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-21 [SS-63-EA-0-1]	B131500	30.0	2.00	09/25/15
15I1054-22 [SS-64-EA-0-1]	B131500	30.0	1.00	09/25/15
15I1054-23 [SS-65-EA-0-1]	B131500	30.0	1.00	09/25/15
15I1054-26 [DUP-01]	B131500	30.0	1.00	09/25/15
15I1054-26RE1 [DUP-01]	B131500	30.0	1.00	09/25/15
15I1054-27 [DUP-02]	B131500	30.0	1.00	09/25/15
15I1054-28 [CD-01-EA]	B131500	30.0	1.00	09/25/15
15I1054-28RE1 [CD-01-EA]	B131500	30.0	1.00	09/25/15
15I1054-29 [CD-02-EA]	B131500	30.0	1.00	09/25/15
15I1054-30 [CD-03-EA]	B131500	30.0	1.00	09/25/15
15I1054-31 [CD-04-EA]	B131500	30.0	1.00	09/25/15
15I1054-32 [CD-05-EA]	B131500	30.0	1.00	09/25/15
15I1054-33 [CD-06-EA]	B131500	30.0	1.00	09/25/15
15I1054-34 [CD-07-EA]	B131500	30.0	1.00	09/25/15

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-01 [SS-43-EA-0-2]	B131546	30.0	1.00	09/25/15
15I1054-01RE1 [SS-43-EA-0-2]	B131546	30.0	1.00	09/25/15
15I1054-02 [SS-44-EA-0-2]	B131546	30.0	1.00	09/25/15
15I1054-03 [SS-45-EA-0-2]	B131546	30.1	1.00	09/25/15
15I1054-04 [SS-46-EA-0-2]	B131546	30.0	1.00	09/25/15
15I1054-04RE1 [SS-46-EA-0-2]	B131546	30.0	1.00	09/25/15
15I1054-04RE2 [SS-46-EA-0-2]	B131546	30.0	1.00	09/25/15
15I1054-05 [SS-47-EA-0-1]	B131546	30.0	1.00	09/25/15
15I1054-06 [SS-48-EA-0-1]	B131546	30.0	1.00	09/25/15
15I1054-07 [SS-49-EA-0-2]	B131546	30.0	1.00	09/25/15
15I1054-08 [SS-50-EA-0-2]	B131546	30.0	1.00	09/25/15
15I1054-09 [SS-51-EA-0-1]	B131546	30.0	1.00	09/25/15
15I1054-10 [SS-52-EA-0-1]	B131546	30.0	1.00	09/25/15
15I1054-11 [SS-53-EA-0-1]	B131546	30.0	1.00	09/25/15
15I1054-12 [SS-54-EA-0-2]	B131546	30.0	1.00	09/25/15
15I1054-12RE1 [SS-54-EA-0-2]	B131546	30.0	1.00	09/25/15
15I1054-13 [SS-55-EA-0-2]	B131546	30.1	1.00	09/25/15
15I1054-13RE1 [SS-55-EA-0-2]	B131546	30.1	1.00	09/25/15
15I1054-14 [SS-56-EA-0-1]	B131546	30.0	1.00	09/25/15
15I1054-15 [SS-57-EA-0-1]	B131546	30.0	1.00	09/25/15
15I1054-16 [SS-58-EA-0-1]	B131546	30.0	1.00	09/25/15
15I1054-17 [SS-59-EA-0-1]	B131546	30.0	1.00	09/25/15
15I1054-18 [SS-60-EA-0-1]	B131546	30.0	1.00	09/25/15
15I1054-19 [SS-61-EA-0-1]	B131546	30.0	1.00	09/25/15
15I1054-20 [SS-62-EA-0-1]	B131546	30.0	1.00	09/25/15
15I1054-20RE1 [SS-62-EA-0-1]	B131546	30.0	1.00	09/25/15

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15I1054-29RE1 [CD-02-EA]	B131648	30.2	1.00	09/28/15
15I1054-30RE1 [CD-03-EA]	B131648	30.2	1.00	09/28/15
15I1054-31RE1 [CD-04-EA]	B131648	30.1	1.00	09/28/15
15I1054-34RE1 [CD-07-EA]	B131648	30.1	1.00	09/28/15

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
1511054-24 [RB-092215]	B131595	1000	1.00	09/26/15
1511054-25 [RB-092315]	B131595	1000	1.00	09/26/15

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131664 - SW-846 5035

Blank (B131664-BLK1)

Prepared & Analyzed: 09/28/15

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131664 - SW-846 5035

Blank (B131664-BLK1)

Prepared & Analyzed: 09/28/15

Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							V-05
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							L-04, V-05
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0555		mg/Kg wet	0.0500		111	70-130			
Surrogate: Toluene-d8	0.0517		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0489		mg/Kg wet	0.0500		97.9	70-130			

LCS (B131664-BS1)

Prepared & Analyzed: 09/28/15

Acetone	0.373	0.10	mg/Kg wet	0.200		187 *	70-160			L-06 †
Acrylonitrile	0.0196	0.0060	mg/Kg wet	0.0200		97.8	70-130			
tert-Amyl Methyl Ether (TAME)	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130			
Benzene	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130			
Bromobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
Bromochloromethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Bromodichloromethane	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
Bromoform	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130			
Bromomethane	0.00978	0.010	mg/Kg wet	0.0200		48.9	40-130			R-05 †
2-Butanone (MEK)	0.285	0.040	mg/Kg wet	0.200		142	70-160			†
tert-Butyl Alcohol (TBA)	0.224	0.040	mg/Kg wet	0.200		112	40-130			V-20 †
n-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
sec-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
tert-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0227	0.0010	mg/Kg wet	0.0200		113	70-130			
Carbon Disulfide	0.0252	0.0060	mg/Kg wet	0.0200		126	70-130			
Carbon Tetrachloride	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Chlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Chlorodibromomethane	0.0192	0.0010	mg/Kg wet	0.0200		96.0	70-130			
Chloroethane	0.0192	0.020	mg/Kg wet	0.0200		96.0	70-130			
Chloroform	0.0213	0.0040	mg/Kg wet	0.0200		106	70-130			
Chloromethane	0.0156	0.010	mg/Kg wet	0.0200		77.8	70-130			
2-Chlorotoluene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131664 - SW-846 5035										
LCS (B131664-BS1)										
Prepared & Analyzed: 09/28/15										
4-Chlorotoluene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0151	0.0020	mg/Kg wet	0.0200		75.6	70-130			V-05
1,2-Dibromoethane (EDB)	0.0196	0.0010	mg/Kg wet	0.0200		98.2	70-130			
Dibromomethane	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
1,2-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
1,4-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
trans-1,4-Dichloro-2-butene	0.0180	0.0040	mg/Kg wet	0.0200		89.8	70-130			
Dichlorodifluoromethane (Freon 12)	0.00724	0.020	mg/Kg wet	0.0200		36.2	* 40-160			L-07 †
1,1-Dichloroethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130			
1,2-Dichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1-Dichloroethylene	0.0231	0.0040	mg/Kg wet	0.0200		115	70-130			
cis-1,2-Dichloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
trans-1,2-Dichloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
1,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichloropropane	0.0194	0.0010	mg/Kg wet	0.0200		97.2	70-130			
2,2-Dichloropropane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1-Dichloropropene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
cis-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
trans-1,3-Dichloropropene	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130			
Diethyl Ether	0.0207	0.020	mg/Kg wet	0.0200		104	70-130			
Diisopropyl Ether (DIPE)	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130			
1,4-Dioxane	0.197	0.10	mg/Kg wet	0.200		98.4	40-160			†
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Hexachlorobutadiene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-160			
2-Hexanone (MBK)	0.210	0.020	mg/Kg wet	0.200		105	70-160			†
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
p-Isopropyltoluene (p-Cymene)	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0221	0.0040	mg/Kg wet	0.0200		110	70-130			
Methylene Chloride	0.0216	0.020	mg/Kg wet	0.0200		108	40-160			†
4-Methyl-2-pentanone (MIBK)	0.186	0.020	mg/Kg wet	0.200		93.1	70-160			†
Naphthalene	0.0131	0.0040	mg/Kg wet	0.0200		65.4	40-130			V-05 †
n-Propylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Styrene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
1,1,1,2-Tetrachloroethane	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,1,2,2-Tetrachloroethane	0.0183	0.0010	mg/Kg wet	0.0200		91.5	70-130			
Tetrachloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0198	0.010	mg/Kg wet	0.0200		99.2	70-130			
Toluene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2,3-Trichlorobenzene	0.0146	0.0020	mg/Kg wet	0.0200		72.8	70-130			V-05
1,2,4-Trichlorobenzene	0.0137	0.0020	mg/Kg wet	0.0200		68.6	* 70-130			L-04, V-05
1,3,5-Trichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
1,1,1-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,2-Trichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Trichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Trichlorofluoromethane (Freon 11)	0.0203	0.010	mg/Kg wet	0.0200		102	70-130			
1,2,3-Trichloropropane	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0222	0.010	mg/Kg wet	0.0200		111	70-130			
1,2,4-Trimethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
1,3,5-Trimethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
Vinyl Chloride	0.0185	0.010	mg/Kg wet	0.0200		92.4	40-130			†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131664 - SW-846 5035

LCS (B131664-BS1)

Prepared & Analyzed: 09/28/15

m+p Xylene	0.0397	0.0040	mg/Kg wet	0.0400		99.3	70-130			
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0550		mg/Kg wet	0.0500		110	70-130			
Surrogate: Toluene-d8	0.0518		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0500		mg/Kg wet	0.0500		99.9	70-130			

LCS Dup (B131664-BSD1)

Prepared & Analyzed: 09/28/15

Acetone	0.398	0.10	mg/Kg wet	0.200		199 *	70-160	6.49	25	L-06 †
Acrylonitrile	0.0207	0.0060	mg/Kg wet	0.0200		104	70-130	5.76	25	
tert-Amyl Methyl Ether (TAME)	0.0230	0.0010	mg/Kg wet	0.0200		115	70-130	3.19	25	
Benzene	0.0235	0.0020	mg/Kg wet	0.0200		118	70-130	2.76	25	
Bromobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130	1.42	25	
Bromochloromethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	5.36	25	
Bromodichloromethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	2.52	25	
Bromoform	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130	3.74	25	
Bromomethane	0.0143	0.010	mg/Kg wet	0.0200		71.4	40-130	37.4 *	25	R-05 †
2-Butanone (MEK)	0.302	0.040	mg/Kg wet	0.200		151	70-160	5.96	25	†
tert-Butyl Alcohol (TBA)	0.224	0.040	mg/Kg wet	0.200		112	40-130	0.0267	25	V-20 †
n-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.09	25	
sec-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	0.771	25	
tert-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-160	1.84	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0234	0.0010	mg/Kg wet	0.0200		117	70-130	3.30	25	
Carbon Disulfide	0.0254	0.0060	mg/Kg wet	0.0200		127	70-130	0.949	25	
Carbon Tetrachloride	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.189	25	
Chlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	0.894	25	
Chlorodibromomethane	0.0198	0.0010	mg/Kg wet	0.0200		99.0	70-130	3.08	25	
Chloroethane	0.0185	0.020	mg/Kg wet	0.0200		92.3	70-130	3.93	25	
Chloroform	0.0223	0.0040	mg/Kg wet	0.0200		111	70-130	4.60	25	
Chloromethane	0.0157	0.010	mg/Kg wet	0.0200		78.7	70-130	1.15	25	
2-Chlorotoluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	1.17	25	
4-Chlorotoluene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	1.71	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0154	0.0020	mg/Kg wet	0.0200		77.0	70-130	1.83	25	V-05
1,2-Dibromoethane (EDB)	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130	2.22	25	
Dibromomethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	4.36	25	
1,2-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	1.32	25	
1,3-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	1.51	25	
1,4-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130	1.67	25	
trans-1,4-Dichloro-2-butene	0.0177	0.0040	mg/Kg wet	0.0200		88.3	70-130	1.68	25	
Dichlorodifluoromethane (Freon 12)	0.00852	0.020	mg/Kg wet	0.0200		42.6	40-160	16.2	25	†
1,1-Dichloroethane	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	2.46	25	
1,2-Dichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	2.65	25	
1,1-Dichloroethylene	0.0232	0.0040	mg/Kg wet	0.0200		116	70-130	0.691	25	
cis-1,2-Dichloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	2.43	25	
trans-1,2-Dichloroethylene	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130	2.46	25	
1,2-Dichloropropane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	3.15	25	
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130	3.44	25	
2,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130	0.631	25	
1,1-Dichloropropene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	1.65	25	
cis-1,3-Dichloropropene	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130	2.40	25	
trans-1,3-Dichloropropene	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130	2.01	25	
Diethyl Ether	0.0212	0.020	mg/Kg wet	0.0200		106	70-130	2.58	25	
Diisopropyl Ether (DIPE)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130	1.67	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131664 - SW-846 5035

LCS Dup (B131664-BSD1)

Prepared & Analyzed: 09/28/15

1,4-Dioxane	0.197	0.10	mg/Kg wet	0.200		98.7	40-160	0.304	50	† ‡
Ethylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	0.980	25	
Hexachlorobutadiene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-160	1.24	25	
2-Hexanone (MBK)	0.216	0.020	mg/Kg wet	0.200		108	70-160	3.06	25	†
Isopropylbenzene (Cumene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	0.771	25	
p-Isopropyltoluene (p-Cymene)	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.63	25	
Methyl tert-Butyl Ether (MTBE)	0.0223	0.0040	mg/Kg wet	0.0200		112	70-130	1.08	25	
Methylene Chloride	0.0221	0.020	mg/Kg wet	0.0200		110	40-160	2.29	25	†
4-Methyl-2-pentanone (MIBK)	0.191	0.020	mg/Kg wet	0.200		95.5	70-160	2.59	25	†
Naphthalene	0.0130	0.0040	mg/Kg wet	0.0200		64.8	40-130	0.922	25	V-05 †
n-Propylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.45	25	
Styrene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130	1.52	25	
1,1,1,2-Tetrachloroethane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	4.59	25	
1,1,2,2-Tetrachloroethane	0.0187	0.0010	mg/Kg wet	0.0200		93.3	70-130	1.95	25	
Tetrachloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.68	25	
Tetrahydrofuran	0.0214	0.010	mg/Kg wet	0.0200		107	70-130	7.47	25	
Toluene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.99	25	
1,2,3-Trichlorobenzene	0.0146	0.0020	mg/Kg wet	0.0200		73.0	70-130	0.274	25	V-05
1,2,4-Trichlorobenzene	0.0137	0.0020	mg/Kg wet	0.0200		68.6 *	70-130	0.00	25	L-04, V-05
1,3,5-Trichlorobenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130	1.01	25	
1,1,1-Trichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	4.03	25	
1,1,2-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	3.25	25	
Trichloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	2.17	25	
Trichlorofluoromethane (Freon 11)	0.0212	0.010	mg/Kg wet	0.0200		106	70-130	4.34	25	
1,2,3-Trichloropropane	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130	0.667	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0223	0.010	mg/Kg wet	0.0200		112	70-130	0.449	25	
1,2,4-Trimethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	2.18	25	
1,3,5-Trimethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130	0.102	25	
Vinyl Chloride	0.0194	0.010	mg/Kg wet	0.0200		97.2	40-130	5.06	25	†
m+p Xylene	0.0400	0.0040	mg/Kg wet	0.0400		100	70-130	0.803	25	
o-Xylene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130	0.308	25	
Surrogate: 1,2-Dichloroethane-d4	0.0557		mg/Kg wet	0.0500		111	70-130			
Surrogate: Toluene-d8	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0503		mg/Kg wet	0.0500		101	70-130			

Batch B131742 - SW-846 5035

Blank (B131742-BLK1)

Prepared & Analyzed: 09/29/15

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131742 - SW-846 5035

Blank (B131742-BLK1)

Prepared & Analyzed: 09/29/15

tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							V-05
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							V-05
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							V-05
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131742 - SW-846 5035										
Blank (B131742-BLK1)										
Prepared & Analyzed: 09/29/15										
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0489		mg/Kg wet	0.0500		97.8	70-130			
LCS (B131742-BS1)										
Prepared & Analyzed: 09/29/15										
Acetone	0.235	0.10	mg/Kg wet	0.200		118	70-160			†
Acrylonitrile	0.0207	0.0060	mg/Kg wet	0.0200		104	70-130			
tert-Amyl Methyl Ether (TAME)	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Benzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Bromobenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
Bromochloromethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
Bromodichloromethane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromoform	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
Bromomethane	0.0151	0.010	mg/Kg wet	0.0200		75.4	40-130			†
2-Butanone (MEK)	0.212	0.040	mg/Kg wet	0.200		106	70-160			†
tert-Butyl Alcohol (TBA)	0.219	0.040	mg/Kg wet	0.200		110	40-130			†
n-Butylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
sec-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
tert-Butylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0220	0.0010	mg/Kg wet	0.0200		110	70-130			
Carbon Disulfide	0.0269	0.0060	mg/Kg wet	0.0200		134 *	70-130			L-02
Carbon Tetrachloride	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
Chlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
Chlorodibromomethane	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130			
Chloroethane	0.0215	0.020	mg/Kg wet	0.0200		107	70-130			
Chloroform	0.0214	0.0040	mg/Kg wet	0.0200		107	70-130			
Chloromethane	0.0192	0.010	mg/Kg wet	0.0200		96.1	70-130			
2-Chlorotoluene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
4-Chlorotoluene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0168	0.0020	mg/Kg wet	0.0200		84.0	70-130			V-05
1,2-Dibromoethane (EDB)	0.0215	0.0010	mg/Kg wet	0.0200		108	70-130			
Dibromomethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3-Dichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,4-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
trans-1,4-Dichloro-2-butene	0.0198	0.0040	mg/Kg wet	0.0200		99.0	70-130			V-05
Dichlorodifluoromethane (Freon 12)	0.0133	0.020	mg/Kg wet	0.0200		66.4	40-160			†
1,1-Dichloroethane	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130			
1,2-Dichloroethane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1-Dichloroethylene	0.0237	0.0040	mg/Kg wet	0.0200		118	70-130			
cis-1,2-Dichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
trans-1,2-Dichloroethylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131742 - SW-846 5035										
LCS (B131742-BS1)										
Prepared & Analyzed: 09/29/15										
1,2-Dichloropropane	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
1,3-Dichloropropane	0.0219	0.0010	mg/Kg wet	0.0200		110	70-130			
2,2-Dichloropropane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1-Dichloropropene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
cis-1,3-Dichloropropene	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130			
trans-1,3-Dichloropropene	0.0243	0.0010	mg/Kg wet	0.0200		121	70-130			
Diethyl Ether	0.0211	0.020	mg/Kg wet	0.0200		105	70-130			
Diisopropyl Ether (DIPE)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
1,4-Dioxane	0.186	0.10	mg/Kg wet	0.200		93.1	40-160			†
Ethylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Hexachlorobutadiene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-160			
2-Hexanone (MBK)	0.199	0.020	mg/Kg wet	0.200		99.7	70-160			†
Isopropylbenzene (Cumene)	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
p-Isopropyltoluene (p-Cymene)	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0211	0.0040	mg/Kg wet	0.0200		106	70-130			
Methylene Chloride	0.0224	0.020	mg/Kg wet	0.0200		112	40-160			†
4-Methyl-2-pentanone (MIBK)	0.203	0.020	mg/Kg wet	0.200		102	70-160			†
Naphthalene	0.0131	0.0040	mg/Kg wet	0.0200		65.5	40-130		V-05	†
n-Propylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Styrene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,1,2-Tetrachloroethane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1,2,2-Tetrachloroethane	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130			
Tetrachloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
Tetrahydrofuran	0.0182	0.010	mg/Kg wet	0.0200		91.0	70-130			
Toluene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,2,3-Trichlorobenzene	0.0153	0.0020	mg/Kg wet	0.0200		76.4	70-130		V-05	
1,2,4-Trichlorobenzene	0.0144	0.0020	mg/Kg wet	0.0200		72.1	70-130		V-05	
1,3,5-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,1,1-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,2-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Trichloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Trichlorofluoromethane (Freon 11)	0.0214	0.010	mg/Kg wet	0.0200		107	70-130			
1,2,3-Trichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0227	0.010	mg/Kg wet	0.0200		113	70-130			
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
1,3,5-Trimethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Vinyl Chloride	0.0221	0.010	mg/Kg wet	0.0200		110	40-130			†
m+p Xylene	0.0434	0.0040	mg/Kg wet	0.0400		108	70-130			
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0504		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0506		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0498		mg/Kg wet	0.0500		99.7	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131742 - SW-846 5035										
LCS Dup (B131742-BSD1)										
Prepared & Analyzed: 09/29/15										
Acetone	0.241	0.10	mg/Kg wet	0.200		120	70-160	2.26	25	†
Acrylonitrile	0.0214	0.0060	mg/Kg wet	0.0200		107	70-130	3.14	25	
tert-Amyl Methyl Ether (TAME)	0.0231	0.0010	mg/Kg wet	0.0200		116	70-130	6.80	25	
Benzene	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130	3.82	25	
Bromobenzene	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	7.10	25	
Bromochloromethane	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130	7.80	25	
Bromodichloromethane	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	6.47	25	
Bromoform	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	6.77	25	
Bromomethane	0.0168	0.010	mg/Kg wet	0.0200		84.1	40-130	10.9	25	†
2-Butanone (MEK)	0.224	0.040	mg/Kg wet	0.200		112	70-160	5.18	25	†
tert-Butyl Alcohol (TBA)	0.227	0.040	mg/Kg wet	0.200		114	40-130	3.64	25	†
n-Butylbenzene	0.0242	0.0020	mg/Kg wet	0.0200		121	70-130	9.88	25	
sec-Butylbenzene	0.0243	0.0020	mg/Kg wet	0.0200		121	70-130	7.53	25	
tert-Butylbenzene	0.0241	0.0020	mg/Kg wet	0.0200		121	70-160	7.39	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0236	0.0010	mg/Kg wet	0.0200		118	70-130	6.75	25	
Carbon Disulfide	0.0264	0.0060	mg/Kg wet	0.0200		132 *	70-130	1.65	25	L-02
Carbon Tetrachloride	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	4.31	25	
Chlorobenzene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	5.72	25	
Chlorodibromomethane	0.0238	0.0010	mg/Kg wet	0.0200		119	70-130	8.76	25	
Chloroethane	0.0219	0.020	mg/Kg wet	0.0200		109	70-130	1.85	25	
Chloroform	0.0227	0.0040	mg/Kg wet	0.0200		114	70-130	5.99	25	
Chloromethane	0.0195	0.010	mg/Kg wet	0.0200		97.3	70-130	1.24	25	
2-Chlorotoluene	0.0240	0.0020	mg/Kg wet	0.0200		120	70-130	6.35	25	
4-Chlorotoluene	0.0235	0.0020	mg/Kg wet	0.0200		118	70-130	6.85	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130	3.05	25	V-05
1,2-Dibromoethane (EDB)	0.0233	0.0010	mg/Kg wet	0.0200		116	70-130	8.04	25	
Dibromomethane	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130	3.14	25	
1,2-Dichlorobenzene	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	7.47	25	
1,3-Dichlorobenzene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	7.75	25	
1,4-Dichlorobenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	7.67	25	
trans-1,4-Dichloro-2-butene	0.0205	0.0040	mg/Kg wet	0.0200		102	70-130	3.47	25	V-05
Dichlorodifluoromethane (Freon 12)	0.0130	0.020	mg/Kg wet	0.0200		65.1	40-160	1.98	25	†
1,1-Dichloroethane	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	3.86	25	
1,2-Dichloroethane	0.0241	0.0020	mg/Kg wet	0.0200		121	70-130	5.53	25	
1,1-Dichloroethylene	0.0241	0.0040	mg/Kg wet	0.0200		121	70-130	1.84	25	
cis-1,2-Dichloroethylene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	5.14	25	
trans-1,2-Dichloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	1.70	25	
1,2-Dichloropropane	0.0237	0.0020	mg/Kg wet	0.0200		119	70-130	4.66	25	
1,3-Dichloropropane	0.0233	0.0010	mg/Kg wet	0.0200		116	70-130	6.11	25	
2,2-Dichloropropane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	4.11	25	
1,1-Dichloropropene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	1.25	25	
cis-1,3-Dichloropropene	0.0243	0.0010	mg/Kg wet	0.0200		121	70-130	6.29	25	
trans-1,3-Dichloropropene	0.0257	0.0010	mg/Kg wet	0.0200		129	70-130	5.84	25	
Diethyl Ether	0.0217	0.020	mg/Kg wet	0.0200		109	70-130	3.08	25	
Diisopropyl Ether (DIPE)	0.0223	0.0010	mg/Kg wet	0.0200		111	70-130	4.03	25	
1,4-Dioxane	0.209	0.10	mg/Kg wet	0.200		104	40-160	11.5	50	† ‡
Ethylbenzene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	5.93	25	
Hexachlorobutadiene	0.0243	0.0020	mg/Kg wet	0.0200		122	70-160	10.1	25	
2-Hexanone (MBK)	0.207	0.020	mg/Kg wet	0.200		103	70-160	3.53	25	†
Isopropylbenzene (Cumene)	0.0240	0.0020	mg/Kg wet	0.0200		120	70-130	6.53	25	
p-Isopropyltoluene (p-Cymene)	0.0243	0.0020	mg/Kg wet	0.0200		122	70-130	7.16	25	
Methyl tert-Butyl Ether (MTBE)	0.0222	0.0040	mg/Kg wet	0.0200		111	70-130	5.17	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131742 - SW-846 5035

LCS Dup (B131742-BSD1)

Prepared & Analyzed: 09/29/15

Methylene Chloride	0.0229	0.020	mg/Kg wet	0.0200		114	40-160	2.21	25	†
4-Methyl-2-pentanone (MIBK)	0.217	0.020	mg/Kg wet	0.200		109	70-160	6.66	25	†
Naphthalene	0.0138	0.0040	mg/Kg wet	0.0200		68.9	40-130	5.06	25	V-05 †
n-Propylbenzene	0.0243	0.0020	mg/Kg wet	0.0200		122	70-130	7.16	25	
Styrene	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	6.91	25	
1,1,1,2-Tetrachloroethane	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130	7.11	25	
1,1,2,2-Tetrachloroethane	0.0219	0.0010	mg/Kg wet	0.0200		109	70-130	5.54	25	
Tetrachloroethylene	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130	5.94	25	
Tetrahydrofuran	0.0198	0.010	mg/Kg wet	0.0200		99.2	70-130	8.62	25	
Toluene	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130	5.68	25	
1,2,3-Trichlorobenzene	0.0162	0.0020	mg/Kg wet	0.0200		80.8	70-130	5.60	25	V-05
1,2,4-Trichlorobenzene	0.0154	0.0020	mg/Kg wet	0.0200		76.9	70-130	6.44	25	V-05
1,3,5-Trichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	7.28	25	
1,1,1-Trichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	3.70	25	
1,1,2-Trichloroethane	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130	6.42	25	
Trichloroethylene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	6.18	25	
Trichlorofluoromethane (Freon 11)	0.0221	0.010	mg/Kg wet	0.0200		110	70-130	2.94	25	
1,2,3-Trichloropropane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	3.88	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0230	0.010	mg/Kg wet	0.0200		115	70-130	1.23	25	
1,2,4-Trimethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	7.26	25	
1,3,5-Trimethylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	6.50	25	
Vinyl Chloride	0.0219	0.010	mg/Kg wet	0.0200		110	40-130	0.637	25	†
m+p Xylene	0.0464	0.0040	mg/Kg wet	0.0400		116	70-130	6.77	25	
o-Xylene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	7.45	25	
Surrogate: 1,2-Dichloroethane-d4	0.0506		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0502		mg/Kg wet	0.0500		100	70-130			

Matrix Spike (B131742-MS1)

Source: 1511054-15

Prepared & Analyzed: 09/29/15

Acetone	0.249	0.11	mg/Kg dry	0.226	ND	110	70-130			
Acrylonitrile	0.0189	0.0068	mg/Kg dry	0.0226	ND	83.3	70-130			
tert-Amyl Methyl Ether (TAME)	0.0221	0.0011	mg/Kg dry	0.0226	ND	97.8	70-130			
Benzene	0.0215	0.0023	mg/Kg dry	0.0226	ND	95.1	70-130			
Bromobenzene	0.0200	0.0023	mg/Kg dry	0.0226	ND	88.5	70-130			
Bromochloromethane	0.0220	0.0023	mg/Kg dry	0.0226	ND	97.3	70-130			
Bromodichloromethane	0.0208	0.0023	mg/Kg dry	0.0226	ND	91.8	70-130			
Bromoform	0.0182	0.0023	mg/Kg dry	0.0226	ND	80.4	70-130			
Bromomethane	0.0157	0.011	mg/Kg dry	0.0226	ND	69.5	70-130	*		MS-24
2-Butanone (MEK)	0.218	0.045	mg/Kg dry	0.226	ND	96.1	70-130			
tert-Butyl Alcohol (TBA)	0.229	0.045	mg/Kg dry	0.226	ND	101	70-130			
n-Butylbenzene	0.0199	0.0023	mg/Kg dry	0.0226	ND	88.0	70-130			
sec-Butylbenzene	0.0212	0.0023	mg/Kg dry	0.0226	ND	93.6	70-130			
tert-Butylbenzene	0.0213	0.0023	mg/Kg dry	0.0226	ND	93.9	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0223	0.0011	mg/Kg dry	0.0226	ND	98.5	70-130			
Carbon Disulfide	0.0249	0.0068	mg/Kg dry	0.0226	ND	110	70-130			
Carbon Tetrachloride	0.0194	0.0023	mg/Kg dry	0.0226	ND	85.5	70-130			
Chlorobenzene	0.0202	0.0023	mg/Kg dry	0.0226	ND	89.3	70-130			
Chlorodibromomethane	0.0203	0.0011	mg/Kg dry	0.0226	ND	89.5	70-130			
Chloroethane	0.0206	0.023	mg/Kg dry	0.0226	ND	91.1	70-130			
Chloroform	0.0207	0.0045	mg/Kg dry	0.0226	ND	91.4	70-130			
Chloromethane	0.0180	0.011	mg/Kg dry	0.0226	ND	79.5	70-130			
2-Chlorotoluene	0.0208	0.0023	mg/Kg dry	0.0226	ND	92.0	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131742 - SW-846 5035										
Matrix Spike (B131742-MS1)		Source: 1511054-15		Prepared & Analyzed: 09/29/15						
4-Chlorotoluene	0.0204	0.0023	mg/Kg dry	0.0226	ND	90.2	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0157	0.0023	mg/Kg dry	0.0226	ND	69.4 *	70-130			MS-09
1,2-Dibromoethane (EDB)	0.0208	0.0011	mg/Kg dry	0.0226	ND	92.0	70-130			
Dibromomethane	0.0208	0.0023	mg/Kg dry	0.0226	ND	91.7	70-130			
1,2-Dichlorobenzene	0.0197	0.0023	mg/Kg dry	0.0226	ND	86.9	70-130			
1,3-Dichlorobenzene	0.0198	0.0023	mg/Kg dry	0.0226	ND	87.4	70-130			
1,4-Dichlorobenzene	0.0192	0.0023	mg/Kg dry	0.0226	ND	84.7	70-130			
trans-1,4-Dichloro-2-butene	0.0172	0.0045	mg/Kg dry	0.0226	ND	75.8	70-130			
Dichlorodifluoromethane (Freon 12)	0.0122	0.023	mg/Kg dry	0.0226	ND	53.7 *	70-130			MS-09
1,1-Dichloroethane	0.0224	0.0023	mg/Kg dry	0.0226	ND	98.8	70-130			
1,2-Dichloroethane	0.0228	0.0023	mg/Kg dry	0.0226	ND	101	70-130			
1,1-Dichloroethylene	0.0235	0.0045	mg/Kg dry	0.0226	ND	104	70-130			
cis-1,2-Dichloroethylene	0.0207	0.0023	mg/Kg dry	0.0226	ND	91.6	70-130			
trans-1,2-Dichloroethylene	0.0210	0.0023	mg/Kg dry	0.0226	ND	92.8	70-130			
1,2-Dichloropropane	0.0217	0.0023	mg/Kg dry	0.0226	ND	95.8	70-130			
1,3-Dichloropropane	0.0213	0.0011	mg/Kg dry	0.0226	ND	94.1	70-130			
2,2-Dichloropropane	0.0207	0.0023	mg/Kg dry	0.0226	ND	91.3	70-130			
1,1-Dichloropropene	0.0212	0.0023	mg/Kg dry	0.0226	ND	93.8	70-130			
cis-1,3-Dichloropropene	0.0212	0.0011	mg/Kg dry	0.0226	ND	93.6	70-130			
trans-1,3-Dichloropropene	0.0224	0.0011	mg/Kg dry	0.0226	ND	99.1	70-130			
Diethyl Ether	0.0215	0.023	mg/Kg dry	0.0226	ND	95.0	70-130			
Diisopropyl Ether (DIPE)	0.0205	0.0011	mg/Kg dry	0.0226	ND	90.7	70-130			
1,4-Dioxane	0.246	0.11	mg/Kg dry	0.226	ND	109	70-130			
Ethylbenzene	0.0208	0.0023	mg/Kg dry	0.0226	ND	92.0	70-130			
Hexachlorobutadiene	0.0202	0.0023	mg/Kg dry	0.0226	ND	89.2	70-130			
2-Hexanone (MBK)	0.196	0.023	mg/Kg dry	0.226	ND	86.8	70-130			
Isopropylbenzene (Cumene)	0.0213	0.0023	mg/Kg dry	0.0226	ND	94.0	70-130			
p-Isopropyltoluene (p-Cymene)	0.0211	0.0023	mg/Kg dry	0.0226	ND	93.4	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0220	0.0045	mg/Kg dry	0.0226	ND	97.3	70-130			
Methylene Chloride	0.0226	0.023	mg/Kg dry	0.0226	ND	99.7	70-130			
4-Methyl-2-pentanone (MIBK)	0.208	0.023	mg/Kg dry	0.226	ND	91.9	70-130			
Naphthalene	0.0113	0.0045	mg/Kg dry	0.0226	ND	49.9 *	70-130			MS-09
n-Propylbenzene	0.0214	0.0023	mg/Kg dry	0.0226	ND	94.5	70-130			
Styrene	0.0200	0.0023	mg/Kg dry	0.0226	ND	88.2	70-130			
1,1,1,2-Tetrachloroethane	0.0204	0.0023	mg/Kg dry	0.0226	ND	90.3	70-130			
1,1,2,2-Tetrachloroethane	0.0201	0.0011	mg/Kg dry	0.0226	ND	88.9	70-130			
Tetrachloroethylene	0.0222	0.0023	mg/Kg dry	0.0226	ND	97.9	70-130			
Tetrahydrofuran	0.0189	0.011	mg/Kg dry	0.0226	ND	83.3	70-130			
Toluene	0.0217	0.0023	mg/Kg dry	0.0226	ND	95.7	70-130			
1,2,3-Trichlorobenzene	0.0124	0.0023	mg/Kg dry	0.0226	ND	54.8 *	70-130			MS-09
1,2,4-Trichlorobenzene	0.0121	0.0023	mg/Kg dry	0.0226	ND	53.5 *	70-130			MS-09
1,3,5-Trichlorobenzene	0.0172	0.0023	mg/Kg dry	0.0226	ND	76.1	70-130			
1,1,1-Trichloroethane	0.0196	0.0023	mg/Kg dry	0.0226	ND	86.6	70-130			
1,1,2-Trichloroethane	0.0214	0.0023	mg/Kg dry	0.0226	ND	94.7	70-130			
Trichloroethylene	0.0215	0.0023	mg/Kg dry	0.0226	ND	95.1	70-130			
Trichlorofluoromethane (Freon 11)	0.0215	0.011	mg/Kg dry	0.0226	ND	95.0	70-130			
1,2,3-Trichloropropane	0.0193	0.0023	mg/Kg dry	0.0226	ND	85.2	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0233	0.011	mg/Kg dry	0.0226	ND	103	70-130			
1,2,4-Trimethylbenzene	0.0186	0.0023	mg/Kg dry	0.0226	ND	82.3	70-130			
1,3,5-Trimethylbenzene	0.0203	0.0023	mg/Kg dry	0.0226	ND	89.6	70-130			
Vinyl Chloride	0.0208	0.011	mg/Kg dry	0.0226	ND	91.8	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131742 - SW-846 5035										
Matrix Spike (B131742-MS1)										
		Source: 1511054-15			Prepared & Analyzed: 09/29/15					
m+p Xylene	0.0411	0.0045	mg/Kg dry	0.0453	ND	90.8	70-130			
o-Xylene	0.0199	0.0023	mg/Kg dry	0.0226	ND	87.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0580		mg/Kg dry	0.0566		102	70-130			
Surrogate: Toluene-d8	0.0575		mg/Kg dry	0.0566		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0567		mg/Kg dry	0.0566		100	70-130			
Matrix Spike Dup (B131742-MSD1)										
		Source: 1511054-15			Prepared & Analyzed: 09/29/15					
Acetone	0.249	0.12	mg/Kg dry	0.244	ND	102	70-130	0.0146	30	
Acrylonitrile	0.0178	0.0073	mg/Kg dry	0.0244	ND	72.9	70-130	5.78	30	
tert-Amyl Methyl Ether (TAME)	0.0229	0.0012	mg/Kg dry	0.0244	ND	93.6	70-130	3.16	30	
Benzene	0.0226	0.0024	mg/Kg dry	0.0244	ND	92.5	70-130	4.78	30	
Bromobenzene	0.0201	0.0024	mg/Kg dry	0.0244	ND	82.4	70-130	0.409	30	
Bromochloromethane	0.0223	0.0024	mg/Kg dry	0.0244	ND	91.3	70-130	1.19	30	
Bromodichloromethane	0.0218	0.0024	mg/Kg dry	0.0244	ND	89.4	70-130	4.90	30	
Bromoform	0.0180	0.0024	mg/Kg dry	0.0244	ND	73.8	70-130	1.01	30	
Bromomethane	0.0174	0.012	mg/Kg dry	0.0244	ND	71.4	70-130	10.2	30	
2-Butanone (MEK)	0.217	0.049	mg/Kg dry	0.244	ND	89.1	70-130	0.0371	30	
tert-Butyl Alcohol (TBA)	0.244	0.049	mg/Kg dry	0.244	ND	100	70-130	6.59	30	
n-Butylbenzene	0.0201	0.0024	mg/Kg dry	0.0244	ND	82.4	70-130	0.976	30	
sec-Butylbenzene	0.0222	0.0024	mg/Kg dry	0.0244	ND	91.1	70-130	4.84	30	
tert-Butylbenzene	0.0228	0.0024	mg/Kg dry	0.0244	ND	93.3	70-130	6.91	30	
tert-Butyl Ethyl Ether (TBEE)	0.0233	0.0012	mg/Kg dry	0.0244	ND	95.6	70-130	4.56	30	
Carbon Disulfide	0.0263	0.0073	mg/Kg dry	0.0244	ND	108	70-130	5.53	30	
Carbon Tetrachloride	0.0206	0.0024	mg/Kg dry	0.0244	ND	84.5	70-130	6.37	30	
Chlorobenzene	0.0209	0.0024	mg/Kg dry	0.0244	ND	85.4	70-130	3.08	30	
Chlorodibromomethane	0.0208	0.0012	mg/Kg dry	0.0244	ND	85.1	70-130	2.51	30	
Chloroethane	0.0220	0.024	mg/Kg dry	0.0244	ND	90.1	70-130	6.44	30	
Chloroform	0.0212	0.0049	mg/Kg dry	0.0244	ND	87.0	70-130	2.62	30	
Chloromethane	0.0196	0.012	mg/Kg dry	0.0244	ND	80.3	70-130	8.55	30	
2-Chlorotoluene	0.0215	0.0024	mg/Kg dry	0.0244	ND	88.0	70-130	3.11	30	
4-Chlorotoluene	0.0207	0.0024	mg/Kg dry	0.0244	ND	84.6	70-130	1.14	30	
1,2-Dibromo-3-chloropropane (DBCP)	0.0153	0.0024	mg/Kg dry	0.0244	ND	62.7 *	70-130	2.60	30	MS-09
1,2-Dibromoethane (EDB)	0.0210	0.0012	mg/Kg dry	0.0244	ND	86.2	70-130	1.04	30	
Dibromomethane	0.0215	0.0024	mg/Kg dry	0.0244	ND	87.9	70-130	3.32	30	
1,2-Dichlorobenzene	0.0197	0.0024	mg/Kg dry	0.0244	ND	80.7	70-130	0.149	30	
1,3-Dichlorobenzene	0.0202	0.0024	mg/Kg dry	0.0244	ND	82.6	70-130	1.90	30	
1,4-Dichlorobenzene	0.0190	0.0024	mg/Kg dry	0.0244	ND	77.9	70-130	0.818	30	
trans-1,4-Dichloro-2-butene	0.0157	0.0049	mg/Kg dry	0.0244	ND	64.2 *	70-130	9.05	30	MS-24
Dichlorodifluoromethane (Freon 12)	0.0127	0.024	mg/Kg dry	0.0244	ND	52.0 *	70-130	4.33	30	MS-09
1,1-Dichloroethane	0.0234	0.0024	mg/Kg dry	0.0244	ND	95.8	70-130	4.47	30	
1,2-Dichloroethane	0.0230	0.0024	mg/Kg dry	0.0244	ND	94.0	70-130	0.765	30	
1,1-Dichloroethylene	0.0248	0.0049	mg/Kg dry	0.0244	ND	102	70-130	5.50	30	
cis-1,2-Dichloroethylene	0.0215	0.0024	mg/Kg dry	0.0244	ND	88.0	70-130	3.54	30	
trans-1,2-Dichloroethylene	0.0223	0.0024	mg/Kg dry	0.0244	ND	91.4	70-130	6.03	30	
1,2-Dichloropropane	0.0228	0.0024	mg/Kg dry	0.0244	ND	93.5	70-130	5.12	30	
1,3-Dichloropropane	0.0217	0.0012	mg/Kg dry	0.0244	ND	88.8	70-130	1.75	30	
2,2-Dichloropropane	0.0218	0.0024	mg/Kg dry	0.0244	ND	89.3	70-130	5.33	30	
1,1-Dichloropropene	0.0220	0.0024	mg/Kg dry	0.0244	ND	89.9	70-130	3.30	30	
cis-1,3-Dichloropropene	0.0212	0.0012	mg/Kg dry	0.0244	ND	86.7	70-130	0.107	30	
trans-1,3-Dichloropropene	0.0224	0.0012	mg/Kg dry	0.0244	ND	91.8	70-130	0.101	30	
Diethyl Ether	0.0228	0.024	mg/Kg dry	0.0244	ND	93.4	70-130	5.85	30	
Diisopropyl Ether (DIPE)	0.0212	0.0012	mg/Kg dry	0.0244	ND	86.8	70-130	3.16	30	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131742 - SW-846 5035										
Matrix Spike Dup (B131742-MSD1)		Source: 1511054-15			Prepared & Analyzed: 09/29/15					
1,4-Dioxane	0.265	0.12	mg/Kg dry	0.244	ND	108	70-130	7.12	30	
Ethylbenzene	0.0217	0.0024	mg/Kg dry	0.0244	ND	89.0	70-130	4.23	30	
Hexachlorobutadiene	0.0203	0.0024	mg/Kg dry	0.0244	ND	83.3	70-130	0.708	30	
2-Hexanone (MBK)	0.192	0.024	mg/Kg dry	0.244	ND	78.6	70-130	2.39	30	
Isopropylbenzene (Cumene)	0.0224	0.0024	mg/Kg dry	0.0244	ND	91.6	70-130	4.96	30	
p-Isopropyltoluene (p-Cymene)	0.0220	0.0024	mg/Kg dry	0.0244	ND	89.9	70-130	3.73	30	
Methyl tert-Butyl Ether (MTBE)	0.0226	0.0049	mg/Kg dry	0.0244	ND	92.4	70-130	2.38	30	
Methylene Chloride	0.0245	0.024	mg/Kg dry	0.0244	ND	100	70-130	8.25	30	
4-Methyl-2-pentanone (MIBK)	0.210	0.024	mg/Kg dry	0.244	ND	85.8	70-130	0.697	30	
Naphthalene	0.0112	0.0049	mg/Kg dry	0.0244	ND	46.0 *	70-130	0.587	30	MS-09
n-Propylbenzene	0.0222	0.0024	mg/Kg dry	0.0244	ND	90.8	70-130	3.56	30	
Styrene	0.0206	0.0024	mg/Kg dry	0.0244	ND	84.3	70-130	3.03	30	
1,1,1,2-Tetrachloroethane	0.0216	0.0024	mg/Kg dry	0.0244	ND	88.5	70-130	5.54	30	
1,1,2,2-Tetrachloroethane	0.0207	0.0012	mg/Kg dry	0.0244	ND	84.6	70-130	2.59	30	
Tetrachloroethylene	0.0226	0.0024	mg/Kg dry	0.0244	ND	92.5	70-130	1.88	30	
Tetrahydrofuran	0.0200	0.012	mg/Kg dry	0.0244	ND	82.0	70-130	5.98	30	
Toluene	0.0223	0.0024	mg/Kg dry	0.0244	ND	91.3	70-130	2.84	30	
1,2,3-Trichlorobenzene	0.0117	0.0024	mg/Kg dry	0.0244	ND	48.1 *	70-130	5.49	30	MS-09
1,2,4-Trichlorobenzene	0.0114	0.0024	mg/Kg dry	0.0244	ND	46.8 *	70-130	5.83	30	MS-09
1,3,5-Trichlorobenzene	0.0164	0.0024	mg/Kg dry	0.0244	ND	67.1 *	70-130	5.03	30	MS-24
1,1,1-Trichloroethane	0.0207	0.0024	mg/Kg dry	0.0244	ND	84.7	70-130	5.33	30	
1,1,2-Trichloroethane	0.0223	0.0024	mg/Kg dry	0.0244	ND	91.5	70-130	4.11	30	
Trichloroethylene	0.0218	0.0024	mg/Kg dry	0.0244	ND	89.4	70-130	1.37	30	
Trichlorofluoromethane (Freon 11)	0.0230	0.012	mg/Kg dry	0.0244	ND	94.2	70-130	6.70	30	
1,2,3-Trichloropropane	0.0202	0.0024	mg/Kg dry	0.0244	ND	82.6	70-130	4.45	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0244	0.012	mg/Kg dry	0.0244	ND	100	70-130	4.99	30	
1,2,4-Trimethylbenzene	0.0196	0.0024	mg/Kg dry	0.0244	ND	80.1	70-130	4.84	30	
1,3,5-Trimethylbenzene	0.0210	0.0024	mg/Kg dry	0.0244	ND	86.0	70-130	3.45	30	
Vinyl Chloride	0.0225	0.012	mg/Kg dry	0.0244	ND	92.0	70-130	7.76	30	
m+p Xylene	0.0429	0.0049	mg/Kg dry	0.0488	ND	87.8	70-130	4.25	30	
o-Xylene	0.0209	0.0024	mg/Kg dry	0.0244	ND	85.5	70-130	4.90	30	
Surrogate: 1,2-Dichloroethane-d4	0.0619		mg/Kg dry	0.0610		101	70-130			
Surrogate: Toluene-d8	0.0615		mg/Kg dry	0.0610		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0613		mg/Kg dry	0.0610		100	70-130			

Batch B131850 - SW-846 5035

Blank (B131850-BLK1)

Prepared & Analyzed: 09/30/15

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131850 - SW-846 5035

Blank (B131850-BLK1)

Prepared & Analyzed: 09/30/15

tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							V-05
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							V-05
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131850 - SW-846 5035

Blank (B131850-BLK1)

Prepared & Analyzed: 09/30/15

1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0490		mg/Kg wet	0.0500		98.0	70-130			

LCS (B131850-BS1)

Prepared & Analyzed: 09/30/15

Acetone	0.214	0.10	mg/Kg wet	0.200		107	70-160			†
Acrylonitrile	0.0183	0.0060	mg/Kg wet	0.0200		91.4	70-130			
tert-Amyl Methyl Ether (TAME)	0.0197	0.0010	mg/Kg wet	0.0200		98.3	70-130			
Benzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Bromobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
Bromochloromethane	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Bromoform	0.0169	0.0020	mg/Kg wet	0.0200		84.7	70-130			
Bromomethane	0.0102	0.010	mg/Kg wet	0.0200		51.0	40-130			†
2-Butanone (MEK)	0.191	0.040	mg/Kg wet	0.200		95.3	70-160			†
tert-Butyl Alcohol (TBA)	0.196	0.040	mg/Kg wet	0.200		97.9	40-130			†
n-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
sec-Butylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
tert-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
Carbon Disulfide	0.0236	0.0060	mg/Kg wet	0.0200		118	70-130			
Carbon Tetrachloride	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
Chlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
Chlorodibromomethane	0.0190	0.0010	mg/Kg wet	0.0200		94.8	70-130			
Chloroethane	0.0186	0.020	mg/Kg wet	0.0200		92.8	70-130			
Chloroform	0.0190	0.0040	mg/Kg wet	0.0200		94.9	70-130			
Chloromethane	0.0163	0.010	mg/Kg wet	0.0200		81.5	70-130			
2-Chlorotoluene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
4-Chlorotoluene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0151	0.0020	mg/Kg wet	0.0200		75.3	70-130			V-05
1,2-Dibromoethane (EDB)	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130			
Dibromomethane	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
1,3-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
1,4-Dichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130			
trans-1,4-Dichloro-2-butene	0.0172	0.0040	mg/Kg wet	0.0200		85.9	70-130			
Dichlorodifluoromethane (Freon 12)	0.00958	0.020	mg/Kg wet	0.0200		47.9	40-160			†
1,1-Dichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1-Dichloroethylene	0.0215	0.0040	mg/Kg wet	0.0200		108	70-130			
cis-1,2-Dichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
trans-1,2-Dichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131850 - SW-846 5035										
LCS (B131850-BS1)										
Prepared & Analyzed: 09/30/15										
1,2-Dichloropropane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,3-Dichloropropane	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130			
2,2-Dichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
1,1-Dichloropropene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
cis-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130			
trans-1,3-Dichloropropene	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130			
Diethyl Ether	0.0203	0.020	mg/Kg wet	0.0200		101	70-130			
Diisopropyl Ether (DIPE)	0.0193	0.0010	mg/Kg wet	0.0200		96.4	70-130			
1,4-Dioxane	0.164	0.10	mg/Kg wet	0.200		82.2	40-160			†
Ethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Hexachlorobutadiene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-160			
2-Hexanone (MBK)	0.180	0.020	mg/Kg wet	0.200		90.2	70-160			†
Isopropylbenzene (Cumene)	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130			
p-Isopropyltoluene (p-Cymene)	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0191	0.0040	mg/Kg wet	0.0200		95.7	70-130			
Methylene Chloride	0.0209	0.020	mg/Kg wet	0.0200		105	40-160			†
4-Methyl-2-pentanone (MIBK)	0.183	0.020	mg/Kg wet	0.200		91.7	70-160			†
Naphthalene	0.0123	0.0040	mg/Kg wet	0.0200		61.7	40-130			V-05 †
n-Propylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
Styrene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
1,1,1,2-Tetrachloroethane	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
1,1,2,2-Tetrachloroethane	0.0184	0.0010	mg/Kg wet	0.0200		92.1	70-130			
Tetrachloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Tetrahydrofuran	0.0173	0.010	mg/Kg wet	0.0200		86.7	70-130			
Toluene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2,3-Trichlorobenzene	0.0141	0.0020	mg/Kg wet	0.0200		70.5	70-130			V-05
1,2,4-Trichlorobenzene	0.0130	0.0020	mg/Kg wet	0.0200		65.1 *	70-130			L-07, V-05
1,3,5-Trichlorobenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.9	70-130			
1,1,1-Trichloroethane	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
1,1,2-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
Trichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Trichlorofluoromethane (Freon 11)	0.0191	0.010	mg/Kg wet	0.0200		95.7	70-130			
1,2,3-Trichloropropane	0.0179	0.0020	mg/Kg wet	0.0200		89.5	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0206	0.010	mg/Kg wet	0.0200		103	70-130			
1,2,4-Trimethylbenzene	0.0174	0.0020	mg/Kg wet	0.0200		86.9	70-130			
1,3,5-Trimethylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
Vinyl Chloride	0.0181	0.010	mg/Kg wet	0.0200		90.3	40-130			†
m+p Xylene	0.0382	0.0040	mg/Kg wet	0.0400		95.5	70-130			
o-Xylene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0507		mg/Kg wet	0.0500		101	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131850 - SW-846 5035										
LCS Dup (B131850-BSD1)										
Prepared & Analyzed: 09/30/15										
Acetone	0.218	0.10	mg/Kg wet	0.200		109	70-160	1.66	25	†
Acrylonitrile	0.0202	0.0060	mg/Kg wet	0.0200		101	70-130	9.88	25	
tert-Amyl Methyl Ether (TAME)	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130	8.75	25	
Benzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	8.50	25	
Bromobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	8.82	25	
Bromochloromethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	8.91	25	
Bromodichloromethane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	10.1	25	
Bromoform	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	11.8	25	
Bromomethane	0.0120	0.010	mg/Kg wet	0.0200		59.9	40-130	16.1	25	†
2-Butanone (MEK)	0.201	0.040	mg/Kg wet	0.200		101	70-160	5.44	25	†
tert-Butyl Alcohol (TBA)	0.217	0.040	mg/Kg wet	0.200		109	40-130	10.4	25	†
n-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	10.2	25	
sec-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	8.65	25	
tert-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-160	9.15	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0220	0.0010	mg/Kg wet	0.0200		110	70-130	9.04	25	
Carbon Disulfide	0.0260	0.0060	mg/Kg wet	0.0200		130	70-130	9.59	25	
Carbon Tetrachloride	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	8.18	25	
Chlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	9.05	25	
Chlorodibromomethane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130	10.3	25	
Chloroethane	0.0209	0.020	mg/Kg wet	0.0200		105	70-130	12.1	25	
Chloroform	0.0209	0.0040	mg/Kg wet	0.0200		105	70-130	9.72	25	
Chloromethane	0.0179	0.010	mg/Kg wet	0.0200		89.4	70-130	9.25	25	
2-Chlorotoluene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	7.82	25	
4-Chlorotoluene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	8.68	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0161	0.0020	mg/Kg wet	0.0200		80.5	70-130	6.68	25	V-05
1,2-Dibromoethane (EDB)	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130	8.80	25	
Dibromomethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	9.17	25	
1,2-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	9.66	25	
1,3-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	10.8	25	
1,4-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	9.93	25	
trans-1,4-Dichloro-2-butene	0.0186	0.0040	mg/Kg wet	0.0200		92.9	70-130	7.83	25	
Dichlorodifluoromethane (Freon 12)	0.0105	0.020	mg/Kg wet	0.0200		52.4	40-160	8.97	25	†
1,1-Dichloroethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	8.05	25	
1,2-Dichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	8.97	25	
1,1-Dichloroethylene	0.0237	0.0040	mg/Kg wet	0.0200		118	70-130	9.47	25	
cis-1,2-Dichloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	9.12	25	
trans-1,2-Dichloroethylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	7.78	25	
1,2-Dichloropropane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	9.51	25	
1,3-Dichloropropane	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130	7.44	25	
2,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	8.30	25	
1,1-Dichloropropene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	8.35	25	
cis-1,3-Dichloropropene	0.0221	0.0010	mg/Kg wet	0.0200		110	70-130	9.10	25	
trans-1,3-Dichloropropene	0.0234	0.0010	mg/Kg wet	0.0200		117	70-130	8.56	25	
Diethyl Ether	0.0219	0.020	mg/Kg wet	0.0200		110	70-130	7.96	25	
Diisopropyl Ether (DIPE)	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130	9.11	25	
1,4-Dioxane	0.185	0.10	mg/Kg wet	0.200		92.6	40-160	11.9	50	† ‡
Ethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	9.17	25	
Hexachlorobutadiene	0.0223	0.0020	mg/Kg wet	0.0200		111	70-160	11.5	25	
2-Hexanone (MBK)	0.190	0.020	mg/Kg wet	0.200		94.8	70-160	4.95	25	†
Isopropylbenzene (Cumene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	8.99	25	
p-Isopropyltoluene (p-Cymene)	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	9.88	25	
Methyl tert-Butyl Ether (MTBE)	0.0211	0.0040	mg/Kg wet	0.0200		105	70-130	9.65	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131850 - SW-846 5035

LCS Dup (B131850-BSD1)

Prepared & Analyzed: 09/30/15

Methylene Chloride	0.0233	0.020	mg/Kg wet	0.0200		116	40-160	10.7	25	†
4-Methyl-2-pentanone (MIBK)	0.199	0.020	mg/Kg wet	0.200		99.7	70-160	8.37	25	†
Naphthalene	0.0130	0.0040	mg/Kg wet	0.0200		64.9	40-130	5.06	25	V-05 †
n-Propylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	7.95	25	
Styrene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	8.37	25	
1,1,1,2-Tetrachloroethane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	8.09	25	
1,1,2,2-Tetrachloroethane	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130	10.3	25	
Tetrachloroethylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	9.25	25	
Tetrahydrofuran	0.0177	0.010	mg/Kg wet	0.0200		88.3	70-130	1.83	25	
Toluene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	8.29	25	
1,2,3-Trichlorobenzene	0.0154	0.0020	mg/Kg wet	0.0200		76.8	70-130	8.55	25	V-05
1,2,4-Trichlorobenzene	0.0142	0.0020	mg/Kg wet	0.0200		71.0	70-130	8.67	25	V-05
1,3,5-Trichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	10.9	25	
1,1,1-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	10.2	25	
1,1,2-Trichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	8.81	25	
Trichloroethylene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	7.44	25	
Trichlorofluoromethane (Freon 11)	0.0211	0.010	mg/Kg wet	0.0200		106	70-130	9.93	25	
1,2,3-Trichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	9.68	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0226	0.010	mg/Kg wet	0.0200		113	70-130	9.35	25	
1,2,4-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130	10.8	25	
1,3,5-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	8.99	25	
Vinyl Chloride	0.0205	0.010	mg/Kg wet	0.0200		102	40-130	12.6	25	†
m+p Xylene	0.0413	0.0040	mg/Kg wet	0.0400		103	70-130	7.85	25	
o-Xylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	8.75	25	
Surrogate: 1,2-Dichloroethane-d4	0.0506		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0512		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0503		mg/Kg wet	0.0500		101	70-130			

Matrix Spike (B131850-MS1)

Source: 1511054-22

Prepared & Analyzed: 09/30/15

Acetone	0.223	0.11	mg/Kg dry	0.228	ND	97.8	70-130			
Acrylonitrile	0.0143	0.0068	mg/Kg dry	0.0228	ND	62.8 *	70-130			MS-09
tert-Amyl Methyl Ether (TAME)	0.0212	0.0011	mg/Kg dry	0.0228	ND	92.8	70-130			
Benzene	0.0208	0.0023	mg/Kg dry	0.0228	ND	91.3	70-130			
Bromobenzene	0.0182	0.0023	mg/Kg dry	0.0228	ND	79.9	70-130			
Bromochloromethane	0.0209	0.0023	mg/Kg dry	0.0228	ND	91.5	70-130			
Bromodichloromethane	0.0195	0.0023	mg/Kg dry	0.0228	ND	85.4	70-130			
Bromoform	0.0162	0.0023	mg/Kg dry	0.0228	ND	71.0	70-130			
Bromomethane	0.0129	0.011	mg/Kg dry	0.0228	ND	56.4 *	70-130			MS-09
2-Butanone (MEK)	0.193	0.046	mg/Kg dry	0.228	ND	84.7	70-130			
tert-Butyl Alcohol (TBA)	0.209	0.046	mg/Kg dry	0.228	ND	91.7	70-130			
n-Butylbenzene	0.0159	0.0023	mg/Kg dry	0.0228	ND	69.6 *	70-130			MS-22
sec-Butylbenzene	0.0189	0.0023	mg/Kg dry	0.0228	ND	83.1	70-130			
tert-Butylbenzene	0.0194	0.0023	mg/Kg dry	0.0228	ND	85.1	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0218	0.0011	mg/Kg dry	0.0228	ND	95.4	70-130			
Carbon Disulfide	0.0240	0.0068	mg/Kg dry	0.0228	ND	105	70-130			
Carbon Tetrachloride	0.0179	0.0023	mg/Kg dry	0.0228	ND	78.6	70-130			
Chlorobenzene	0.0192	0.0023	mg/Kg dry	0.0228	ND	84.0	70-130			
Chlorodibromomethane	0.0185	0.0011	mg/Kg dry	0.0228	ND	81.3	70-130			
Chloroethane	0.0211	0.023	mg/Kg dry	0.0228	ND	92.4	70-130			
Chloroform	0.0198	0.0046	mg/Kg dry	0.0228	ND	86.9	70-130			
Chloromethane	0.0170	0.011	mg/Kg dry	0.0228	ND	74.6	70-130			
2-Chlorotoluene	0.0190	0.0023	mg/Kg dry	0.0228	ND	83.3	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131850 - SW-846 5035										
Matrix Spike (B131850-MS1)	Source: 1511054-22			Prepared & Analyzed: 09/30/15						
4-Chlorotoluene	0.0182	0.0023	mg/Kg dry	0.0228	ND	79.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0136	0.0023	mg/Kg dry	0.0228	ND	59.8 *	70-130			MS-09, V-05
1,2-Dibromoethane (EDB)	0.0197	0.0011	mg/Kg dry	0.0228	ND	86.6	70-130			
Dibromomethane	0.0200	0.0023	mg/Kg dry	0.0228	ND	87.6	70-130			
1,2-Dichlorobenzene	0.0176	0.0023	mg/Kg dry	0.0228	ND	77.0	70-130			
1,3-Dichlorobenzene	0.0179	0.0023	mg/Kg dry	0.0228	ND	78.7	70-130			
1,4-Dichlorobenzene	0.0173	0.0023	mg/Kg dry	0.0228	ND	76.0	70-130			
trans-1,4-Dichloro-2-butene	0.0137	0.0046	mg/Kg dry	0.0228	ND	59.9 *	70-130			MS-09, R-06
Dichlorodifluoromethane (Freon 12)	0.0109	0.023	mg/Kg dry	0.0228	ND	47.8 *	70-130			MS-09
1,1-Dichloroethane	0.0217	0.0023	mg/Kg dry	0.0228	ND	95.1	70-130			
1,2-Dichloroethane	0.0215	0.0023	mg/Kg dry	0.0228	ND	94.1	70-130			
1,1-Dichloroethylene	0.0228	0.0046	mg/Kg dry	0.0228	ND	100	70-130			
cis-1,2-Dichloroethylene	0.0200	0.0023	mg/Kg dry	0.0228	ND	87.7	70-130			
trans-1,2-Dichloroethylene	0.0211	0.0023	mg/Kg dry	0.0228	ND	92.5	70-130			
1,2-Dichloropropane	0.0209	0.0023	mg/Kg dry	0.0228	ND	91.7	70-130			
1,3-Dichloropropane	0.0201	0.0011	mg/Kg dry	0.0228	ND	88.2	70-130			
2,2-Dichloropropane	0.0200	0.0023	mg/Kg dry	0.0228	ND	87.8	70-130			
1,1-Dichloropropene	0.0205	0.0023	mg/Kg dry	0.0228	ND	90.0	70-130			
cis-1,3-Dichloropropene	0.0187	0.0011	mg/Kg dry	0.0228	ND	82.0	70-130			
trans-1,3-Dichloropropene	0.0202	0.0011	mg/Kg dry	0.0228	ND	88.7	70-130			
Diethyl Ether	0.0211	0.023	mg/Kg dry	0.0228	ND	92.6	70-130			
Diisopropyl Ether (DIPE)	0.0200	0.0011	mg/Kg dry	0.0228	ND	87.7	70-130			
1,4-Dioxane	0.201	0.11	mg/Kg dry	0.228	ND	88.0	70-130			
Ethylbenzene	0.0197	0.0023	mg/Kg dry	0.0228	ND	86.3	70-130			
Hexachlorobutadiene	0.0149	0.0023	mg/Kg dry	0.0228	ND	65.4 *	70-130			MS-22
2-Hexanone (MBK)	0.164	0.023	mg/Kg dry	0.228	ND	71.9	70-130			
Isopropylbenzene (Cumene)	0.0197	0.0023	mg/Kg dry	0.0228	ND	86.6	70-130			
p-Isopropyltoluene (p-Cymene)	0.0182	0.0023	mg/Kg dry	0.0228	ND	79.8	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0207	0.0046	mg/Kg dry	0.0228	ND	90.7	70-130			
Methylene Chloride	0.0233	0.023	mg/Kg dry	0.0228	ND	102	70-130			
4-Methyl-2-pentanone (MIBK)	0.187	0.023	mg/Kg dry	0.228	ND	82.1	70-130			
Naphthalene	0.00976	0.0046	mg/Kg dry	0.0228	ND	42.8 *	70-130			MS-09, V-05
n-Propylbenzene	0.0192	0.0023	mg/Kg dry	0.0228	ND	84.3	70-130			
Styrene	0.0184	0.0023	mg/Kg dry	0.0228	ND	80.5	70-130			
1,1,1,2-Tetrachloroethane	0.0193	0.0023	mg/Kg dry	0.0228	ND	84.8	70-130			
1,1,2,2-Tetrachloroethane	0.0184	0.0011	mg/Kg dry	0.0228	ND	80.9	70-130			
Tetrachloroethylene	0.0207	0.0023	mg/Kg dry	0.0228	ND	90.8	70-130			
Tetrahydrofuran	0.0173	0.011	mg/Kg dry	0.0228	ND	76.0	70-130			
Toluene	0.0204	0.0023	mg/Kg dry	0.0228	ND	89.5	70-130			
1,2,3-Trichlorobenzene	0.0100	0.0023	mg/Kg dry	0.0228	ND	44.0 *	70-130			MS-09, V-05
1,2,4-Trichlorobenzene	0.00971	0.0023	mg/Kg dry	0.0228	ND	42.6 *	70-130			MS-09, V-05
1,3,5-Trichlorobenzene	0.0134	0.0023	mg/Kg dry	0.0228	ND	58.8 *	70-130			MS-09
1,1,1-Trichloroethane	0.0191	0.0023	mg/Kg dry	0.0228	ND	83.6	70-130			
1,1,2-Trichloroethane	0.0202	0.0023	mg/Kg dry	0.0228	ND	88.7	70-130			
Trichloroethylene	0.0205	0.0023	mg/Kg dry	0.0228	ND	89.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0204	0.011	mg/Kg dry	0.0228	ND	89.6	70-130			
1,2,3-Trichloropropane	0.0180	0.0023	mg/Kg dry	0.0228	ND	78.9	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0219	0.011	mg/Kg dry	0.0228	ND	96.1	70-130			
1,2,4-Trimethylbenzene	0.0168	0.0023	mg/Kg dry	0.0228	ND	73.8	70-130			
1,3,5-Trimethylbenzene	0.0181	0.0023	mg/Kg dry	0.0228	ND	79.6	70-130			
Vinyl Chloride	0.0202	0.011	mg/Kg dry	0.0228	ND	88.6	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131850 - SW-846 5035										
Matrix Spike (B131850-MS1)										
Source: 1511054-22										
Prepared & Analyzed: 09/30/15										
m+p Xylene	0.0387	0.0046	mg/Kg dry	0.0456	ND	84.9	70-130			
o-Xylene	0.0189	0.0023	mg/Kg dry	0.0228	ND	82.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0580		mg/Kg dry	0.0570		102	70-130			
Surrogate: Toluene-d8	0.0579		mg/Kg dry	0.0570		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0573		mg/Kg dry	0.0570		101	70-130			
Matrix Spike Dup (B131850-MSD1)										
Source: 1511054-22										
Prepared & Analyzed: 09/30/15										
Acetone	0.218	0.10	mg/Kg dry	0.208	ND	105	70-130	2.53	30	
Acrylonitrile	0.0123	0.0062	mg/Kg dry	0.0208	ND	59.2 *	70-130	15.2	30	MS-09
tert-Amyl Methyl Ether (TAME)	0.0202	0.0010	mg/Kg dry	0.0208	ND	97.2	70-130	4.72	30	
Benzene	0.0199	0.0021	mg/Kg dry	0.0208	ND	96.0	70-130	4.33	30	
Bromobenzene	0.0180	0.0021	mg/Kg dry	0.0208	ND	86.8	70-130	1.07	30	
Bromochloromethane	0.0202	0.0021	mg/Kg dry	0.0208	ND	97.5	70-130	3.00	30	
Bromodichloromethane	0.0194	0.0021	mg/Kg dry	0.0208	ND	93.6	70-130	0.184	30	
Bromoform	0.0160	0.0021	mg/Kg dry	0.0208	ND	77.1	70-130	1.11	30	
Bromomethane	0.0133	0.010	mg/Kg dry	0.0208	ND	64.1 *	70-130	3.44	30	MS-09
2-Butanone (MEK)	0.190	0.042	mg/Kg dry	0.208	ND	91.7	70-130	1.41	30	
tert-Butyl Alcohol (TBA)	0.210	0.042	mg/Kg dry	0.208	ND	101	70-130	0.502	30	
n-Butylbenzene	0.0173	0.0021	mg/Kg dry	0.0208	ND	83.4	70-130	8.73	30	
sec-Butylbenzene	0.0194	0.0021	mg/Kg dry	0.0208	ND	93.2	70-130	2.12	30	
tert-Butylbenzene	0.0198	0.0021	mg/Kg dry	0.0208	ND	95.2	70-130	1.86	30	
tert-Butyl Ethyl Ether (TBEE)	0.0205	0.0010	mg/Kg dry	0.0208	ND	98.5	70-130	6.15	30	
Carbon Disulfide	0.0232	0.0062	mg/Kg dry	0.0208	ND	112	70-130	3.36	30	
Carbon Tetrachloride	0.0176	0.0021	mg/Kg dry	0.0208	ND	84.7	70-130	1.88	30	
Chlorobenzene	0.0187	0.0021	mg/Kg dry	0.0208	ND	89.9	70-130	2.56	30	
Chlorodibromomethane	0.0188	0.0010	mg/Kg dry	0.0208	ND	90.4	70-130	1.26	30	
Chloroethane	0.0193	0.021	mg/Kg dry	0.0208	ND	92.8	70-130	8.91	30	
Chloroform	0.0191	0.0042	mg/Kg dry	0.0208	ND	91.9	70-130	3.76	30	
Chloromethane	0.0160	0.010	mg/Kg dry	0.0208	ND	77.0	70-130	6.18	30	
2-Chlorotoluene	0.0187	0.0021	mg/Kg dry	0.0208	ND	90.0	70-130	1.62	30	
4-Chlorotoluene	0.0181	0.0021	mg/Kg dry	0.0208	ND	87.3	70-130	0.244	30	
1,2-Dibromo-3-chloropropane (DBCP)	0.0136	0.0021	mg/Kg dry	0.0208	ND	65.5 *	70-130	0.248	30	MS-09, V-05
1,2-Dibromoethane (EDB)	0.0194	0.0010	mg/Kg dry	0.0208	ND	93.4	70-130	1.79	30	
Dibromomethane	0.0199	0.0021	mg/Kg dry	0.0208	ND	95.6	70-130	0.613	30	
1,2-Dichlorobenzene	0.0174	0.0021	mg/Kg dry	0.0208	ND	83.8	70-130	0.890	30	
1,3-Dichlorobenzene	0.0179	0.0021	mg/Kg dry	0.0208	ND	86.2	70-130	0.250	30	
1,4-Dichlorobenzene	0.0173	0.0021	mg/Kg dry	0.0208	ND	83.1	70-130	0.421	30	
trans-1,4-Dichloro-2-butene	0.00164	0.0042	mg/Kg dry	0.0208	ND	7.90 *	70-130	157 *	30	MS-09, R-06
Dichlorodifluoromethane (Freon 12)	0.00997	0.021	mg/Kg dry	0.0208	ND	48.0 *	70-130	8.93	30	MS-09
1,1-Dichloroethane	0.0210	0.0021	mg/Kg dry	0.0208	ND	101	70-130	3.23	30	
1,2-Dichloroethane	0.0208	0.0021	mg/Kg dry	0.0208	ND	100	70-130	2.87	30	
1,1-Dichloroethylene	0.0221	0.0042	mg/Kg dry	0.0208	ND	106	70-130	3.44	30	
cis-1,2-Dichloroethylene	0.0192	0.0021	mg/Kg dry	0.0208	ND	92.3	70-130	4.24	30	
trans-1,2-Dichloroethylene	0.0202	0.0021	mg/Kg dry	0.0208	ND	97.1	70-130	4.50	30	
1,2-Dichloropropane	0.0202	0.0021	mg/Kg dry	0.0208	ND	97.4	70-130	3.32	30	
1,3-Dichloropropane	0.0198	0.0010	mg/Kg dry	0.0208	ND	95.5	70-130	1.40	30	
2,2-Dichloropropane	0.0193	0.0021	mg/Kg dry	0.0208	ND	93.1	70-130	3.49	30	
1,1-Dichloropropene	0.0194	0.0021	mg/Kg dry	0.0208	ND	93.2	70-130	5.86	30	
cis-1,3-Dichloropropene	0.0192	0.0010	mg/Kg dry	0.0208	ND	92.6	70-130	2.80	30	
trans-1,3-Dichloropropene	0.0206	0.0010	mg/Kg dry	0.0208	ND	99.0	70-130	1.63	30	
Diethyl Ether	0.0202	0.021	mg/Kg dry	0.0208	ND	97.1	70-130	4.61	30	
Diisopropyl Ether (DIPE)	0.0189	0.0010	mg/Kg dry	0.0208	ND	91.2	70-130	5.44	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131850 - SW-846 5035										
Matrix Spike Dup (B131850-MSD1)		Source: 1511054-22			Prepared & Analyzed: 09/30/15					
1,4-Dioxane	0.172	0.10	mg/Kg dry	0.208	ND	82.7	70-130	15.5	30	
Ethylbenzene	0.0190	0.0021	mg/Kg dry	0.0208	ND	91.7	70-130	3.28	30	
Hexachlorobutadiene	0.0171	0.0021	mg/Kg dry	0.0208	ND	82.4	70-130	13.7	30	
2-Hexanone (MBK)	0.165	0.021	mg/Kg dry	0.208	ND	79.4	70-130	0.574	30	
Isopropylbenzene (Cumene)	0.0195	0.0021	mg/Kg dry	0.0208	ND	94.0	70-130	1.15	30	
p-Isopropyltoluene (p-Cymene)	0.0188	0.0021	mg/Kg dry	0.0208	ND	90.6	70-130	3.34	30	
Methyl tert-Butyl Ether (MTBE)	0.0199	0.0042	mg/Kg dry	0.0208	ND	95.8	70-130	3.88	30	
Methylene Chloride	0.0211	0.021	mg/Kg dry	0.0208	ND	102	70-130	9.74	30	
4-Methyl-2-pentanone (MIBK)	0.183	0.021	mg/Kg dry	0.208	ND	88.4	70-130	2.01	30	
Naphthalene	0.00941	0.0042	mg/Kg dry	0.0208	ND	45.3 *	70-130	3.68	30	V-05, MS-09
n-Propylbenzene	0.0193	0.0021	mg/Kg dry	0.0208	ND	93.0	70-130	0.469	30	
Styrene	0.0182	0.0021	mg/Kg dry	0.0208	ND	87.8	70-130	0.672	30	
1,1,1,2-Tetrachloroethane	0.0190	0.0021	mg/Kg dry	0.0208	ND	91.7	70-130	1.53	30	
1,1,2,2-Tetrachloroethane	0.0183	0.0010	mg/Kg dry	0.0208	ND	88.3	70-130	0.600	30	
Tetrachloroethylene	0.0202	0.0021	mg/Kg dry	0.0208	ND	97.1	70-130	2.64	30	
Tetrahydrofuran	0.0165	0.010	mg/Kg dry	0.0208	ND	79.7	70-130	4.60	30	
Toluene	0.0199	0.0021	mg/Kg dry	0.0208	ND	95.9	70-130	2.45	30	
1,2,3-Trichlorobenzene	0.00978	0.0021	mg/Kg dry	0.0208	ND	47.1 *	70-130	2.54	30	V-05, MS-09
1,2,4-Trichlorobenzene	0.00955	0.0021	mg/Kg dry	0.0208	ND	46.0 *	70-130	1.67	30	MS-09, V-05
1,3,5-Trichlorobenzene	0.0139	0.0021	mg/Kg dry	0.0208	ND	66.8 *	70-130	3.40	30	MS-09
1,1,1-Trichloroethane	0.0179	0.0021	mg/Kg dry	0.0208	ND	86.2	70-130	6.29	30	
1,1,2-Trichloroethane	0.0200	0.0021	mg/Kg dry	0.0208	ND	96.2	70-130	1.24	30	
Trichloroethylene	0.0198	0.0021	mg/Kg dry	0.0208	ND	95.5	70-130	3.20	30	
Trichlorofluoromethane (Freon 11)	0.0199	0.010	mg/Kg dry	0.0208	ND	95.6	70-130	2.87	30	
1,2,3-Trichloropropane	0.0183	0.0021	mg/Kg dry	0.0208	ND	87.9	70-130	1.45	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0213	0.010	mg/Kg dry	0.0208	ND	102	70-130	2.91	30	
1,2,4-Trimethylbenzene	0.0169	0.0021	mg/Kg dry	0.0208	ND	81.3	70-130	0.326	30	
1,3,5-Trimethylbenzene	0.0181	0.0021	mg/Kg dry	0.0208	ND	87.3	70-130	0.119	30	
Vinyl Chloride	0.0187	0.010	mg/Kg dry	0.0208	ND	89.9	70-130	7.89	30	
m+p Xylene	0.0377	0.0042	mg/Kg dry	0.0415	ND	90.8	70-130	2.69	30	
o-Xylene	0.0183	0.0021	mg/Kg dry	0.0208	ND	88.3	70-130	2.92	30	
Surrogate: 1,2-Dichloroethane-d4	0.0524		mg/Kg dry	0.0519		101	70-130			
Surrogate: Toluene-d8	0.0527		mg/Kg dry	0.0519		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0520		mg/Kg dry	0.0519		100	70-130			

Batch B131920 - SW-846 5030B

Blank (B131920-BLK1)		Prepared: 09/30/15 Analyzed: 10/01/15								
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-05
2-Butanone (MEK)	ND	20	µg/L							L-04, R-05, V-05
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131920 - SW-846 5030B

Blank (B131920-BLK1)

Prepared: 09/30/15 Analyzed: 10/01/15

tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							V-05
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131920 - SW-846 5030B										
Blank (B131920-BLK1)										
Prepared: 09/30/15 Analyzed: 10/01/15										
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.8		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.7		µg/L	25.0		98.9	70-130			
LCS (B131920-BS1)										
Prepared: 09/30/15 Analyzed: 10/01/15										
Acetone	118	50	µg/L	100		118	70-160			V-20 †
Acrylonitrile	12.1	5.0	µg/L	10.0		121	70-130			
tert-Amyl Methyl Ether (TAME)	10.1	0.50	µg/L	10.0		101	70-130			
Benzene	10.3	1.0	µg/L	10.0		103	70-130			
Bromobenzene	9.80	1.0	µg/L	10.0		98.0	70-130			
Bromochloromethane	10.2	1.0	µg/L	10.0		102	70-130			
Bromodichloromethane	8.97	0.50	µg/L	10.0		89.7	70-130			
Bromoform	7.37	1.0	µg/L	10.0		73.7	70-130			V-05
Bromomethane	2.02	2.0	µg/L	10.0		20.2 *	40-160			L-04, R-05, V-05 †
2-Butanone (MEK)	131	20	µg/L	100		131	40-160			V-20 †
tert-Butyl Alcohol (TBA)	131	20	µg/L	100		131	40-160			V-20 †
n-Butylbenzene	9.33	1.0	µg/L	10.0		93.3	70-130			
sec-Butylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
tert-Butylbenzene	9.66	1.0	µg/L	10.0		96.6	70-130			
tert-Butyl Ethyl Ether (TBEE)	11.3	0.50	µg/L	10.0		113	70-130			
Carbon Disulfide	11.7	4.0	µg/L	10.0		117	70-130			
Carbon Tetrachloride	9.72	5.0	µg/L	10.0		97.2	70-130			
Chlorobenzene	9.39	1.0	µg/L	10.0		93.9	70-130			
Chlorodibromomethane	8.53	0.50	µg/L	10.0		85.3	70-130			
Chloroethane	15.9	2.0	µg/L	10.0		159 *	70-130			L-02, V-20
Chloroform	10.2	2.0	µg/L	10.0		102	70-130			
Chloromethane	7.89	2.0	µg/L	10.0		78.9	40-160			†
2-Chlorotoluene	9.73	1.0	µg/L	10.0		97.3	70-130			
4-Chlorotoluene	9.55	1.0	µg/L	10.0		95.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.8	5.0	µg/L	10.0		108	70-130			
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130			
Dibromomethane	9.83	1.0	µg/L	10.0		98.3	70-130			
1,2-Dichlorobenzene	9.31	1.0	µg/L	10.0		93.1	70-130			
1,3-Dichlorobenzene	9.77	1.0	µg/L	10.0		97.7	70-130			
1,4-Dichlorobenzene	9.47	1.0	µg/L	10.0		94.7	70-130			
trans-1,4-Dichloro-2-butene	9.38	2.0	µg/L	10.0		93.8	70-130			
Dichlorodifluoromethane (Freon 12)	3.89	2.0	µg/L	10.0		38.9 *	40-160			L-07, V-05 †
1,1-Dichloroethane	11.1	1.0	µg/L	10.0		111	70-130			
1,2-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
cis-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
trans-1,2-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131920 - SW-846 5030B										
LCS (B131920-BS1)										
Prepared: 09/30/15 Analyzed: 10/01/15										
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104	70-130			
2,2-Dichloropropane	8.85	1.0	µg/L	10.0		88.5	40-130			†
1,1-Dichloropropene	10.5	2.0	µg/L	10.0		105	70-130			
cis-1,3-Dichloropropene	9.87	0.50	µg/L	10.0		98.7	70-130			
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130			
Diethyl Ether	10.0	2.0	µg/L	10.0		100	70-130			
Diisopropyl Ether (DIPE)	9.98	0.50	µg/L	10.0		99.8	70-130			
1,4-Dioxane	130	50	µg/L	100		130	40-130			V-20 †
Ethylbenzene	9.53	1.0	µg/L	10.0		95.3	70-130			
Hexachlorobutadiene	10.5	0.50	µg/L	10.0		105	70-130			
2-Hexanone (MBK)	120	10	µg/L	100		120	70-160			V-20 †
Isopropylbenzene (Cumene)	9.59	1.0	µg/L	10.0		95.9	70-130			
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.0		104	70-130			
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	µg/L	10.0		105	70-130			
Methylene Chloride	11.9	5.0	µg/L	10.0		119	70-130			
4-Methyl-2-pentanone (MIBK)	114	10	µg/L	100		114	70-160			V-20 †
Naphthalene	10.3	2.0	µg/L	10.0		103	40-130			†
n-Propylbenzene	9.71	1.0	µg/L	10.0		97.1	70-130			
Styrene	9.22	1.0	µg/L	10.0		92.2	70-130			
1,1,1,2-Tetrachloroethane	9.04	1.0	µg/L	10.0		90.4	70-130			
1,1,2,2-Tetrachloroethane	9.19	0.50	µg/L	10.0		91.9	70-130			
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Tetrahydrofuran	10.3	10	µg/L	10.0		103	70-130			
Toluene	10.0	1.0	µg/L	10.0		100	70-130			
1,2,3-Trichlorobenzene	9.66	5.0	µg/L	10.0		96.6	70-130			
1,2,4-Trichlorobenzene	9.58	1.0	µg/L	10.0		95.8	70-130			
1,3,5-Trichlorobenzene	8.68	1.0	µg/L	10.0		86.8	70-130			
1,1,1-Trichloroethane	9.99	1.0	µg/L	10.0		99.9	70-130			
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130			
Trichloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
Trichlorofluoromethane (Freon 11)	8.36	2.0	µg/L	10.0		83.6	70-130			
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.59	1.0	µg/L	10.0		95.9	70-130			
1,2,4-Trimethylbenzene	9.73	1.0	µg/L	10.0		97.3	70-130			
1,3,5-Trimethylbenzene	9.32	1.0	µg/L	10.0		93.2	70-130			
Vinyl Chloride	8.26	2.0	µg/L	10.0		82.6	40-160			†
m+p Xylene	18.9	2.0	µg/L	20.0		94.6	70-130			
o-Xylene	9.56	1.0	µg/L	10.0		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	26.5		µg/L	25.0		106	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.5		µg/L	25.0		97.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131920 - SW-846 5030B

LCS Dup (B131920-BSD1)

Prepared: 09/30/15 Analyzed: 10/01/15

Acetone	125	50	µg/L	100		125	70-160	5.10	25	V-20 †
Acrylonitrile	12.5	5.0	µg/L	10.0		125	70-130	2.93	25	
tert-Amyl Methyl Ether (TAME)	10.2	0.50	µg/L	10.0		102	70-130	0.394	25	
Benzene	10.5	1.0	µg/L	10.0		105	70-130	2.02	25	
Bromobenzene	10.1	1.0	µg/L	10.0		101	70-130	2.62	25	
Bromochloromethane	10.6	1.0	µg/L	10.0		106	70-130	3.57	25	
Bromodichloromethane	9.95	0.50	µg/L	10.0		99.5	70-130	10.4	25	
Bromoform	7.82	1.0	µg/L	10.0		78.2	70-130	5.92	25	V-05
Bromomethane	3.39	2.0	µg/L	10.0		33.9 *	40-160	50.6 *	25	L-04, R-05, V-05 †
2-Butanone (MEK)	139	20	µg/L	100		139	40-160	5.69	25	V-20 †
tert-Butyl Alcohol (TBA)	136	20	µg/L	100		136	40-160	4.19	25	V-20 †
n-Butylbenzene	9.59	1.0	µg/L	10.0		95.9	70-130	2.75	25	
sec-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130	1.68	25	
tert-Butylbenzene	9.91	1.0	µg/L	10.0		99.1	70-130	2.55	25	
tert-Butyl Ethyl Ether (TBEE)	11.2	0.50	µg/L	10.0		112	70-130	0.444	25	
Carbon Disulfide	11.6	4.0	µg/L	10.0		116	70-130	1.46	25	
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101	70-130	3.83	25	
Chlorobenzene	9.83	1.0	µg/L	10.0		98.3	70-130	4.58	25	
Chlorodibromomethane	8.97	0.50	µg/L	10.0		89.7	70-130	5.03	25	
Chloroethane	16.7	2.0	µg/L	10.0		167 *	70-130	5.15	25	V-20, L-02
Chloroform	10.2	2.0	µg/L	10.0		102	70-130	0.196	25	
Chloromethane	9.08	2.0	µg/L	10.0		90.8	40-160	14.0	25	†
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	4.03	25	
4-Chlorotoluene	9.79	1.0	µg/L	10.0		97.9	70-130	2.48	25	
1,2-Dibromo-3-chloropropane (DBCP)	11.1	5.0	µg/L	10.0		111	70-130	2.28	25	
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130	3.30	25	
Dibromomethane	10.2	1.0	µg/L	10.0		102	70-130	4.18	25	
1,2-Dichlorobenzene	9.47	1.0	µg/L	10.0		94.7	70-130	1.70	25	
1,3-Dichlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130	1.02	25	
1,4-Dichlorobenzene	9.62	1.0	µg/L	10.0		96.2	70-130	1.57	25	
trans-1,4-Dichloro-2-butene	9.91	2.0	µg/L	10.0		99.1	70-130	5.50	25	
Dichlorodifluoromethane (Freon 12)	4.15	2.0	µg/L	10.0		41.5	40-160	6.47	25	V-05 †
1,1-Dichloroethane	11.2	1.0	µg/L	10.0		112	70-130	0.540	25	
1,2-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130	3.15	25	
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130	1.04	25	
cis-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	1.73	25	
trans-1,2-Dichloroethylene	11.0	1.0	µg/L	10.0		110	70-130	2.68	25	
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	70-130	0.875	25	
1,3-Dichloropropane	10.5	0.50	µg/L	10.0		105	70-130	0.287	25	
2,2-Dichloropropane	8.88	1.0	µg/L	10.0		88.8	40-130	0.338	25	†
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107	70-130	1.70	25	
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130	4.07	25	
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130	0.272	25	
Diethyl Ether	10.1	2.0	µg/L	10.0		101	70-130	0.895	25	
Diisopropyl Ether (DIPE)	10.2	0.50	µg/L	10.0		102	70-130	2.47	25	
1,4-Dioxane	127	50	µg/L	100		127	40-130	2.47	50	V-20 † ‡
Ethylbenzene	9.87	1.0	µg/L	10.0		98.7	70-130	3.51	25	
Hexachlorobutadiene	10.8	0.50	µg/L	10.0		108	70-130	2.44	25	
2-Hexanone (MBK)	125	10	µg/L	100		125	70-160	4.02	25	V-20 †
Isopropylbenzene (Cumene)	9.88	1.0	µg/L	10.0		98.8	70-130	2.98	25	
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.0		106	70-130	1.71	25	
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	µg/L	10.0		106	70-130	0.662	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131920 - SW-846 5030B

LCS Dup (B131920-BSD1)

Prepared: 09/30/15 Analyzed: 10/01/15

Methylene Chloride	12.4	5.0	µg/L	10.0		124	70-130	3.54	25	
4-Methyl-2-pentanone (MIBK)	115	10	µg/L	100		115	70-160	0.472	25	V-20 †
Naphthalene	10.9	2.0	µg/L	10.0		109	40-130	5.68	25	†
n-Propylbenzene	10.1	1.0	µg/L	10.0		101	70-130	3.74	25	
Styrene	9.57	1.0	µg/L	10.0		95.7	70-130	3.73	25	
1,1,1,2-Tetrachloroethane	9.31	1.0	µg/L	10.0		93.1	70-130	2.94	25	
1,1,2,2-Tetrachloroethane	9.01	0.50	µg/L	10.0		90.1	70-130	1.98	25	
Tetrachloroethylene	10.8	1.0	µg/L	10.0		108	70-130	5.25	25	
Tetrahydrofuran	10.4	10	µg/L	10.0		104	70-130	0.965	25	
Toluene	10.4	1.0	µg/L	10.0		104	70-130	4.11	25	
1,2,3-Trichlorobenzene	10.1	5.0	µg/L	10.0		101	70-130	4.06	25	
1,2,4-Trichlorobenzene	9.89	1.0	µg/L	10.0		98.9	70-130	3.18	25	
1,3,5-Trichlorobenzene	8.62	1.0	µg/L	10.0		86.2	70-130	0.694	25	
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	2.76	25	
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	1.22	25	
Trichloroethylene	11.8	1.0	µg/L	10.0		118	70-130	7.49	25	
Trichlorofluoromethane (Freon 11)	8.72	2.0	µg/L	10.0		87.2	70-130	4.22	25	
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110	70-130	3.05	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.95	1.0	µg/L	10.0		99.5	70-130	3.68	25	
1,2,4-Trimethylbenzene	9.91	1.0	µg/L	10.0		99.1	70-130	1.83	25	
1,3,5-Trimethylbenzene	9.68	1.0	µg/L	10.0		96.8	70-130	3.79	25	
Vinyl Chloride	8.44	2.0	µg/L	10.0		84.4	40-160	2.16	25	†
m+p Xylene	19.8	2.0	µg/L	20.0		99.0	70-130	4.49	25	
o-Xylene	9.87	1.0	µg/L	10.0		98.7	70-130	3.19	25	
Surrogate: 1,2-Dichloroethane-d4	26.6		µg/L	25.0		106	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.2	70-130			

Batch B132032 - SW-846 5035

Blank (B132032-BLK1)

Prepared & Analyzed: 10/01/15

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B132032 - SW-846 5035

Blank (B132032-BLK1)

Prepared & Analyzed: 10/01/15

Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							V-05
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							V-05
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B132032 - SW-846 5035										
Blank (B132032-BLK1)										
Prepared & Analyzed: 10/01/15										
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0500		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0511		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0490		mg/Kg wet	0.0500		98.1	70-130			
LCS (B132032-BS1)										
Prepared & Analyzed: 10/01/15										
Acetone	0.185	0.10	mg/Kg wet	0.200		92.6	70-160			†
Acrylonitrile	0.0199	0.0060	mg/Kg wet	0.0200		99.5	70-130			
tert-Amyl Methyl Ether (TAME)	0.0230	0.0010	mg/Kg wet	0.0200		115	70-130			
Benzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Bromobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromochloromethane	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Bromodichloromethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromoform	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
Bromomethane	0.0125	0.010	mg/Kg wet	0.0200		62.5	40-130			†
2-Butanone (MEK)	0.195	0.040	mg/Kg wet	0.200		97.7	70-160			†
tert-Butyl Alcohol (TBA)	0.231	0.040	mg/Kg wet	0.200		115	40-130			†
n-Butylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
sec-Butylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
tert-Butylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0229	0.0010	mg/Kg wet	0.0200		115	70-130			
Carbon Disulfide	0.0242	0.0060	mg/Kg wet	0.0200		121	70-130			
Carbon Tetrachloride	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Chlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Chlorodibromomethane	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130			
Chloroethane	0.0179	0.020	mg/Kg wet	0.0200		89.4	70-130			
Chloroform	0.0213	0.0040	mg/Kg wet	0.0200		107	70-130			
Chloromethane	0.0170	0.010	mg/Kg wet	0.0200		84.9	70-130			
2-Chlorotoluene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
4-Chlorotoluene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0159	0.0020	mg/Kg wet	0.0200		79.3	70-130			V-05
1,2-Dibromoethane (EDB)	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Dibromomethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
1,4-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
trans-1,4-Dichloro-2-butene	0.0197	0.0040	mg/Kg wet	0.0200		98.6	70-130			
Dichlorodifluoromethane (Freon 12)	0.00960	0.020	mg/Kg wet	0.0200		48.0	40-160			†
1,1-Dichloroethane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,2-Dichloroethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
1,1-Dichloroethylene	0.0224	0.0040	mg/Kg wet	0.0200		112	70-130			
cis-1,2-Dichloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
trans-1,2-Dichloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dichloropropane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,3-Dichloropropane	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130			
2,2-Dichloropropane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1-Dichloropropene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
cis-1,3-Dichloropropene	0.0231	0.0010	mg/Kg wet	0.0200		115	70-130			
trans-1,3-Dichloropropene	0.0245	0.0010	mg/Kg wet	0.0200		123	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B132032 - SW-846 5035

LCS (B132032-BS1)

Prepared & Analyzed: 10/01/15

Diethyl Ether	0.0206	0.020	mg/Kg wet	0.0200		103	70-130			
Diisopropyl Ether (DIPE)	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130			
1,4-Dioxane	0.194	0.10	mg/Kg wet	0.200		97.1	40-160			†
Ethylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
Hexachlorobutadiene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-160			
2-Hexanone (MBK)	0.189	0.020	mg/Kg wet	0.200		94.7	70-160			†
Isopropylbenzene (Cumene)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
p-Isopropyltoluene (p-Cymene)	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130			
Methylene Chloride	0.0209	0.020	mg/Kg wet	0.0200		105	40-160			†
4-Methyl-2-pentanone (MIBK)	0.203	0.020	mg/Kg wet	0.200		102	70-160			†
Naphthalene	0.0130	0.0040	mg/Kg wet	0.0200		65.2	40-130		V-05	†
n-Propylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Styrene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,1,1,2-Tetrachloroethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1,2,2-Tetrachloroethane	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130			
Tetrachloroethylene	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130			
Tetrahydrofuran	0.0180	0.010	mg/Kg wet	0.0200		90.0	70-130			
Toluene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,2,3-Trichlorobenzene	0.0151	0.0020	mg/Kg wet	0.0200		75.3	70-130		V-05	
1,2,4-Trichlorobenzene	0.0141	0.0020	mg/Kg wet	0.0200		70.4	70-130		V-05	
1,3,5-Trichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
1,1,1-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
1,1,2-Trichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Trichloroethylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Trichlorofluoromethane (Freon 11)	0.0197	0.010	mg/Kg wet	0.0200		98.6	70-130			
1,2,3-Trichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0209	0.010	mg/Kg wet	0.0200		105	70-130			
1,2,4-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
1,3,5-Trimethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Vinyl Chloride	0.0184	0.010	mg/Kg wet	0.0200		91.8	40-130			†
m+p Xylene	0.0435	0.0040	mg/Kg wet	0.0400		109	70-130			
o-Xylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			

LCS Dup (B132032-BSD1)

Prepared & Analyzed: 10/01/15

Acetone	0.188	0.10	mg/Kg wet	0.200		94.0	70-160	1.49	25	†
Acrylonitrile	0.0197	0.0060	mg/Kg wet	0.0200		98.4	70-130	1.11	25	
tert-Amyl Methyl Ether (TAME)	0.0221	0.0010	mg/Kg wet	0.0200		110	70-130	4.35	25	
Benzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	0.898	25	
Bromobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	6.42	25	
Bromochloromethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	0.183	25	
Bromodichloromethane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	5.13	25	
Bromoform	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130	8.23	25	
Bromomethane	0.0152	0.010	mg/Kg wet	0.0200		75.9	40-130	19.4	25	†
2-Butanone (MEK)	0.190	0.040	mg/Kg wet	0.200		95.2	70-160	2.53	25	†
tert-Butyl Alcohol (TBA)	0.218	0.040	mg/Kg wet	0.200		109	40-130	5.82	25	†
n-Butylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	7.53	25	
sec-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	5.27	25	
tert-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-160	5.99	25	†

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B132032 - SW-846 5035										
LCS Dup (B132032-BSD1)										
Prepared & Analyzed: 10/01/15										
tert-Butyl Ethyl Ether (TBEE)	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130	3.37	25	
Carbon Disulfide	0.0254	0.0060	mg/Kg wet	0.0200		127	70-130	4.75	25	
Carbon Tetrachloride	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	3.16	25	
Chlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	6.44	25	
Chlorodibromomethane	0.0199	0.0010	mg/Kg wet	0.0200		99.7	70-130	6.31	25	
Chloroethane	0.0210	0.020	mg/Kg wet	0.0200		105	70-130	16.2	25	
Chloroform	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130	2.47	25	
Chloromethane	0.0177	0.010	mg/Kg wet	0.0200		88.5	70-130	4.15	25	
2-Chlorotoluene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	6.33	25	
4-Chlorotoluene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	4.89	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0152	0.0020	mg/Kg wet	0.0200		76.2	70-130	3.99	25	V-05
1,2-Dibromoethane (EDB)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	4.65	25	
Dibromomethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	4.46	25	
1,2-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130	6.88	25	
1,3-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	6.98	25	
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	5.38	25	
trans-1,4-Dichloro-2-butene	0.0176	0.0040	mg/Kg wet	0.0200		88.2	70-130	11.1	25	
Dichlorodifluoromethane (Freon 12)	0.0112	0.020	mg/Kg wet	0.0200		56.0	40-160	15.4	25	†
1,1-Dichloroethane	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130	0.701	25	
1,2-Dichloroethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	2.46	25	
1,1-Dichloroethylene	0.0235	0.0040	mg/Kg wet	0.0200		117	70-130	4.80	25	
cis-1,2-Dichloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.30	25	
trans-1,2-Dichloroethylene	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130	2.27	25	
1,2-Dichloropropane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	3.60	25	
1,3-Dichloropropane	0.0209	0.0010	mg/Kg wet	0.0200		105	70-130	3.94	25	
2,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	0.574	25	
1,1-Dichloropropene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	0.0936	25	
cis-1,3-Dichloropropene	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130	6.62	25	
trans-1,3-Dichloropropene	0.0230	0.0010	mg/Kg wet	0.0200		115	70-130	6.31	25	
Diethyl Ether	0.0216	0.020	mg/Kg wet	0.0200		108	70-130	4.55	25	
Diisopropyl Ether (DIPE)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	2.28	25	
1,4-Dioxane	0.182	0.10	mg/Kg wet	0.200		91.0	40-160	6.53	50	† ‡
Ethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	5.40	25	
Hexachlorobutadiene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-160	5.37	25	
2-Hexanone (MBK)	0.178	0.020	mg/Kg wet	0.200		88.8	70-160	6.42	25	†
Isopropylbenzene (Cumene)	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	4.66	25	
p-Isopropyltoluene (p-Cymene)	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	6.09	25	
Methyl tert-Butyl Ether (MTBE)	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130	0.00	25	
Methylene Chloride	0.0219	0.020	mg/Kg wet	0.0200		110	40-160	4.48	25	†
4-Methyl-2-pentanone (MIBK)	0.194	0.020	mg/Kg wet	0.200		96.9	70-160	4.87	25	†
Naphthalene	0.0119	0.0040	mg/Kg wet	0.0200		59.7	40-130	8.81	25	V-05 †
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	6.22	25	
Styrene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	5.84	25	
1,1,1,2-Tetrachloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	8.21	25	
1,1,2,2-Tetrachloroethane	0.0194	0.0010	mg/Kg wet	0.0200		97.1	70-130	6.86	25	
Tetrachloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	5.32	25	
Tetrahydrofuran	0.0187	0.010	mg/Kg wet	0.0200		93.3	70-130	3.60	25	
Toluene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	3.23	25	
1,2,3-Trichlorobenzene	0.0137	0.0020	mg/Kg wet	0.0200		68.7	* 70-130	9.17	25	L-07, V-05
1,2,4-Trichlorobenzene	0.0131	0.0020	mg/Kg wet	0.0200		65.3	* 70-130	7.52	25	L-07, V-05
1,3,5-Trichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130	7.99	25	
1,1,1-Trichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130	0.704	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B132032 - SW-846 5035										
LCS Dup (B132032-BSD1)										
Prepared & Analyzed: 10/01/15										
1,1,2-Trichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	4.21	25	
Trichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	3.95	25	
Trichlorofluoromethane (Freon 11)	0.0215	0.010	mg/Kg wet	0.0200		107	70-130	8.54	25	
1,2,3-Trichloropropane	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130	6.44	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0221	0.010	mg/Kg wet	0.0200		111	70-130	5.48	25	
1,2,4-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130	6.67	25	
1,3,5-Trimethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	6.34	25	
Vinyl Chloride	0.0206	0.010	mg/Kg wet	0.0200		103	40-130	11.7	25	†
m+p Xylene	0.0409	0.0040	mg/Kg wet	0.0400		102	70-130	6.11	25	
o-Xylene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130	4.99	25	
Surrogate: 1,2-Dichloroethane-d4	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0512		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131500 - SW-846 3546

Blank (B131500-BLK1)

Prepared: 09/25/15 Analyzed: 09/28/15

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzidine	ND	0.66	mg/Kg wet							R-05, V-04, V-05
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							R-05
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131500 - SW-846 3546

Blank (B131500-BLK1)

Prepared: 09/25/15 Analyzed: 09/28/15

2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							

Surrogate: 2-Fluorophenol	6.18		mg/Kg wet	6.67		92.7	30-130			
Surrogate: Phenol-d6	5.85		mg/Kg wet	6.67		87.8	30-130			
Surrogate: Nitrobenzene-d5	2.48		mg/Kg wet	3.33		74.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.95		mg/Kg wet	3.33		88.4	30-130			
Surrogate: 2,4,6-Tribromophenol	6.26		mg/Kg wet	6.67		94.0	30-130			
Surrogate: p-Terphenyl-d14	3.57		mg/Kg wet	3.33		107	30-130			

LCS (B131500-BS1)

Prepared: 09/25/15 Analyzed: 09/28/15

Acenaphthene	1.46	0.17	mg/Kg wet	1.67		87.4	40-140			
Acenaphthylene	1.40	0.17	mg/Kg wet	1.67		83.8	40-140			
Acetophenone	1.18	0.34	mg/Kg wet	1.67		71.1	40-140			
Aniline	0.902	0.34	mg/Kg wet	1.67		54.1	10-140			†
Anthracene	1.41	0.17	mg/Kg wet	1.67		84.5	40-140			
Benzdine	0.988	0.66	mg/Kg wet	1.67		59.3	40-140			R-05, V-04, V-05
Benzo(a)anthracene	1.47	0.17	mg/Kg wet	1.67		88.0	40-140			
Benzo(a)pyrene	1.51	0.17	mg/Kg wet	1.67		90.4	40-140			
Benzo(b)fluoranthene	1.43	0.17	mg/Kg wet	1.67		85.7	40-140			
Benzo(g,h,i)perylene	1.46	0.17	mg/Kg wet	1.67		87.8	40-140			
Benzo(k)fluoranthene	1.42	0.17	mg/Kg wet	1.67		85.5	40-140			
Benzoic Acid	0.971	1.0	mg/Kg wet	1.67		58.3	30-130			
Bis(2-chloroethoxy)methane	1.34	0.34	mg/Kg wet	1.67		80.1	40-140			
Bis(2-chloroethyl)ether	1.36	0.34	mg/Kg wet	1.67		81.7	40-140			
Bis(2-chloroisopropyl)ether	1.18	0.34	mg/Kg wet	1.67		70.7	40-140			
Bis(2-Ethylhexyl)phthalate	1.65	0.34	mg/Kg wet	1.67		99.0	40-140			
4-Bromophenylphenylether	1.55	0.34	mg/Kg wet	1.67		92.8	40-140			
Butylbenzylphthalate	1.55	0.34	mg/Kg wet	1.67		93.1	40-140			
Carbazole	1.37	0.17	mg/Kg wet	1.67		82.0	40-140			
4-Chloroaniline	0.805	0.66	mg/Kg wet	1.67		48.3	10-140			†
4-Chloro-3-methylphenol	1.42	0.66	mg/Kg wet	1.67		85.2	30-130			
2-Chloronaphthalene	1.20	0.34	mg/Kg wet	1.67		72.1	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131500 - SW-846 3546										
LCS (B131500-BS1)										
					Prepared: 09/25/15 Analyzed: 09/28/15					
2-Chlorophenol	1.42	0.34	mg/Kg wet	1.67		85.0	30-130			
4-Chlorophenylphenylether	1.52	0.34	mg/Kg wet	1.67		91.2	40-140			
Chrysene	1.40	0.17	mg/Kg wet	1.67		84.2	40-140			
Dibenz(a,h)anthracene	1.56	0.17	mg/Kg wet	1.67		93.5	40-140			
Dibenzofuran	1.43	0.34	mg/Kg wet	1.67		85.9	40-140			
Di-n-butylphthalate	1.42	0.34	mg/Kg wet	1.67		85.4	40-140			
1,2-Dichlorobenzene	1.24	0.34	mg/Kg wet	1.67		74.1	40-140			
1,3-Dichlorobenzene	1.17	0.34	mg/Kg wet	1.67		70.1	40-140			
1,4-Dichlorobenzene	1.20	0.34	mg/Kg wet	1.67		72.3	40-140			
3,3-Dichlorobenzidine	1.14	0.17	mg/Kg wet	1.67		68.4	20-140			†
2,4-Dichlorophenol	1.46	0.34	mg/Kg wet	1.67		87.4	30-130			
Diethylphthalate	1.51	0.34	mg/Kg wet	1.67		90.7	40-140			
2,4-Dimethylphenol	1.42	0.34	mg/Kg wet	1.67		85.2	30-130			
Dimethylphthalate	1.49	0.34	mg/Kg wet	1.67		89.6	40-140			
4,6-Dinitro-2-methylphenol	1.28	0.34	mg/Kg wet	1.67		77.1	30-130			
2,4-Dinitrophenol	0.884	0.66	mg/Kg wet	1.67		53.0	30-130			R-05
2,4-Dinitrotoluene	1.47	0.34	mg/Kg wet	1.67		88.0	40-140			
2,6-Dinitrotoluene	1.57	0.34	mg/Kg wet	1.67		94.1	40-140			
Di-n-octylphthalate	1.59	0.34	mg/Kg wet	1.67		95.5	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.28	0.34	mg/Kg wet	1.67		76.7	40-140			
Fluoranthene	1.39	0.17	mg/Kg wet	1.67		83.2	40-140			
Fluorene	1.47	0.17	mg/Kg wet	1.67		88.0	40-140			
Hexachlorobenzene	1.42	0.34	mg/Kg wet	1.67		85.1	40-140			
Hexachlorobutadiene	1.30	0.34	mg/Kg wet	1.67		77.7	40-140			
Hexachlorocyclopentadiene	1.12	0.34	mg/Kg wet	1.67		67.0	40-140			
Hexachloroethane	1.21	0.34	mg/Kg wet	1.67		72.4	40-140			
Indeno(1,2,3-cd)pyrene	1.56	0.17	mg/Kg wet	1.67		93.6	40-140			
Isophorone	1.32	0.34	mg/Kg wet	1.67		79.3	40-140			
1-Methylnaphthalene	1.26	0.17	mg/Kg wet	1.67		75.5	40-140			
2-Methylnaphthalene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140			
2-Methylphenol	1.36	0.34	mg/Kg wet	1.67		81.6	30-130			
3/4-Methylphenol	1.32	0.34	mg/Kg wet	1.67		79.2	30-130			
Naphthalene	1.26	0.17	mg/Kg wet	1.67		75.5	40-140			
2-Nitroaniline	1.32	0.34	mg/Kg wet	1.67		79.3	40-140			
3-Nitroaniline	1.26	0.34	mg/Kg wet	1.67		75.7	30-140			†
4-Nitroaniline	1.46	0.34	mg/Kg wet	1.67		87.3	40-140			
Nitrobenzene	1.20	0.34	mg/Kg wet	1.67		71.8	40-140			
2-Nitrophenol	1.40	0.34	mg/Kg wet	1.67		83.7	30-130			
4-Nitrophenol	1.34	0.66	mg/Kg wet	1.67		80.6	30-130			
N-Nitrosodimethylamine	1.07	0.34	mg/Kg wet	1.67		64.0	40-140			
N-Nitrosodiphenylamine	1.74	0.34	mg/Kg wet	1.67		105	40-140			
N-Nitrosodi-n-propylamine	1.20	0.34	mg/Kg wet	1.67		72.3	40-140			
Pentachloronitrobenzene	1.34	0.34	mg/Kg wet	1.67		80.7	40-140			V-16
Pentachlorophenol	1.17	0.34	mg/Kg wet	1.67		69.9	30-130			
Phenanthrene	1.42	0.17	mg/Kg wet	1.67		84.9	40-140			
Phenol	1.40	0.34	mg/Kg wet	1.67		84.0	30-130			
Pyrene	1.45	0.17	mg/Kg wet	1.67		87.2	40-140			
Pyridine	0.888	0.34	mg/Kg wet	1.67		53.3	30-140			†
1,2,4,5-Tetrachlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.4	40-140			
1,2,4-Trichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.6	40-140			
2,4,5-Trichlorophenol	1.48	0.34	mg/Kg wet	1.67		88.6	30-130			
2,4,6-Trichlorophenol	1.54	0.34	mg/Kg wet	1.67		92.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131500 - SW-846 3546

LCS (B131500-BS1)

Prepared: 09/25/15 Analyzed: 09/28/15

Surrogate: 2-Fluorophenol	6.38		mg/Kg wet	6.67		95.7	30-130			
Surrogate: Phenol-d6	6.04		mg/Kg wet	6.67		90.6	30-130			
Surrogate: Nitrobenzene-d5	2.64		mg/Kg wet	3.33		79.1	30-130			
Surrogate: 2-Fluorobiphenyl	3.14		mg/Kg wet	3.33		94.2	30-130			
Surrogate: 2,4,6-Tribromophenol	7.21		mg/Kg wet	6.67		108	30-130			
Surrogate: p-Terphenyl-d14	3.40		mg/Kg wet	3.33		102	30-130			

LCS Dup (B131500-BSD1)

Prepared: 09/25/15 Analyzed: 09/28/15

Acenaphthene	1.27	0.17	mg/Kg wet	1.67		76.4	40-140	13.4	30	
Acenaphthylene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	13.6	30	
Acetophenone	1.08	0.34	mg/Kg wet	1.67		64.8	40-140	9.18	30	
Aniline	1.07	0.34	mg/Kg wet	1.67		64.4	10-140	17.3	50	† ‡
Anthracene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140	11.9	30	
Benzidine	1.52	0.66	mg/Kg wet	1.67		91.3	40-140	42.6 *	30	R-05, V-04, V-05
Benzo(a)anthracene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140	10.6	30	
Benzo(a)pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140	14.0	30	
Benzo(b)fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140	14.1	30	
Benzo(g,h,i)perylene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140	11.6	30	
Benzo(k)fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	16.6	30	
Benzoic Acid	0.790	1.0	mg/Kg wet	1.67		47.4	30-130	20.6	50	‡
Bis(2-chloroethoxy)methane	1.19	0.34	mg/Kg wet	1.67		71.6	40-140	11.3	30	
Bis(2-chloroethyl)ether	1.23	0.34	mg/Kg wet	1.67		73.8	40-140	10.2	30	
Bis(2-chloroisopropyl)ether	1.09	0.34	mg/Kg wet	1.67		65.3	40-140	8.00	30	
Bis(2-Ethylhexyl)phthalate	1.54	0.34	mg/Kg wet	1.67		92.2	40-140	7.09	30	
4-Bromophenylphenylether	1.34	0.34	mg/Kg wet	1.67		80.3	40-140	14.5	30	
Butylbenzylphthalate	1.43	0.34	mg/Kg wet	1.67		86.1	40-140	7.82	30	
Carbazole	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	9.46	30	
4-Chloroaniline	1.06	0.66	mg/Kg wet	1.67		63.7	10-140	27.5	30	†
4-Chloro-3-methylphenol	1.26	0.66	mg/Kg wet	1.67		75.3	30-130	12.3	30	
2-Chloronaphthalene	1.08	0.34	mg/Kg wet	1.67		64.8	40-140	10.7	30	
2-Chlorophenol	1.25	0.34	mg/Kg wet	1.67		75.2	30-130	12.3	30	
4-Chlorophenylphenylether	1.33	0.34	mg/Kg wet	1.67		79.7	40-140	13.5	30	
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	10.6	30	
Dibenz(a,h)anthracene	1.39	0.17	mg/Kg wet	1.67		83.3	40-140	11.5	30	
Dibenzofuran	1.25	0.34	mg/Kg wet	1.67		74.9	40-140	13.6	30	
Di-n-butylphthalate	1.28	0.34	mg/Kg wet	1.67		76.7	40-140	10.7	30	
1,2-Dichlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.6	40-140	12.3	30	
1,3-Dichlorobenzene	1.05	0.34	mg/Kg wet	1.67		63.1	40-140	10.6	30	
1,4-Dichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.7	40-140	12.6	30	
3,3-Dichlorobenzidine	1.45	0.17	mg/Kg wet	1.67		86.9	20-140	23.9	50	† ‡
2,4-Dichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.9	30-130	16.7	30	
Diethylphthalate	1.32	0.34	mg/Kg wet	1.67		79.1	40-140	13.7	30	
2,4-Dimethylphenol	1.23	0.34	mg/Kg wet	1.67		73.7	30-130	14.5	30	
Dimethylphthalate	1.33	0.34	mg/Kg wet	1.67		79.8	40-140	11.6	30	
4,6-Dinitro-2-methylphenol	1.06	0.34	mg/Kg wet	1.67		63.8	30-130	18.8	30	
2,4-Dinitrophenol	0.553	0.66	mg/Kg wet	1.67		33.2	30-130	46.0 *	30	R-05
2,4-Dinitrotoluene	1.27	0.34	mg/Kg wet	1.67		75.9	40-140	14.7	30	
2,6-Dinitrotoluene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	12.1	30	
Di-n-octylphthalate	1.39	0.34	mg/Kg wet	1.67		83.3	40-140	13.6	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.22	0.34	mg/Kg wet	1.67		73.4	40-140	4.45	30	
Fluoranthene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	14.4	30	
Fluorene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140	13.5	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131500 - SW-846 3546

LCS Dup (B131500-BSD1)

Prepared: 09/25/15 Analyzed: 09/28/15

Hexachlorobenzene	1.23	0.34	mg/Kg wet	1.67		73.8	40-140	14.2	30	
Hexachlorobutadiene	1.10	0.34	mg/Kg wet	1.67		65.9	40-140	16.5	30	
Hexachlorocyclopentadiene	0.972	0.34	mg/Kg wet	1.67		58.3	40-140	13.8	30	
Hexachloroethane	1.10	0.34	mg/Kg wet	1.67		65.9	40-140	9.37	30	
Indeno(1,2,3-cd)pyrene	1.36	0.17	mg/Kg wet	1.67		81.4	40-140	13.9	30	
Isophorone	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	8.95	30	
1-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140	14.8	30	
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140	14.7	30	
2-Methylphenol	1.18	0.34	mg/Kg wet	1.67		71.1	30-130	13.8	30	
3/4-Methylphenol	1.17	0.34	mg/Kg wet	1.67		70.0	30-130	12.3	30	
Naphthalene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	12.0	30	
2-Nitroaniline	1.25	0.34	mg/Kg wet	1.67		74.9	40-140	5.73	30	
3-Nitroaniline	1.33	0.34	mg/Kg wet	1.67		79.6	30-140	4.97	30	†
4-Nitroaniline	1.30	0.34	mg/Kg wet	1.67		78.0	40-140	11.3	30	
Nitrobenzene	1.08	0.34	mg/Kg wet	1.67		64.7	40-140	10.4	30	
2-Nitrophenol	1.19	0.34	mg/Kg wet	1.67		71.6	30-130	15.6	30	
4-Nitrophenol	1.18	0.66	mg/Kg wet	1.67		70.9	30-130	12.8	50	‡
N-Nitrosodimethylamine	1.02	0.34	mg/Kg wet	1.67		61.4	40-140	4.18	30	
N-Nitrosodiphenylamine	1.57	0.34	mg/Kg wet	1.67		94.4	40-140	10.4	30	
N-Nitrosodi-n-propylamine	1.12	0.34	mg/Kg wet	1.67		67.1	40-140	7.46	30	
Pentachloronitrobenzene	1.21	0.34	mg/Kg wet	1.67		72.4	40-140	10.8	30	V-16
Pentachlorophenol	1.02	0.34	mg/Kg wet	1.67		61.2	30-130	13.4	30	
Phenanthrene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	11.5	30	
Phenol	1.28	0.34	mg/Kg wet	1.67		77.0	30-130	8.72	30	
Pyrene	1.39	0.17	mg/Kg wet	1.67		83.2	40-140	4.74	30	
Pyridine	0.890	0.34	mg/Kg wet	1.67		53.4	30-140	0.150	30	†
1,2,4,5-Tetrachlorobenzene	1.14	0.34	mg/Kg wet	1.67		68.4	40-140	12.4	30	
1,2,4-Trichlorobenzene	1.13	0.34	mg/Kg wet	1.67		67.9	40-140	13.4	30	
2,4,5-Trichlorophenol	1.28	0.34	mg/Kg wet	1.67		76.6	30-130	14.6	30	
2,4,6-Trichlorophenol	1.33	0.34	mg/Kg wet	1.67		80.0	30-130	14.3	30	
Surrogate: 2-Fluorophenol	5.55		mg/Kg wet	6.67		83.3	30-130			
Surrogate: Phenol-d6	5.37		mg/Kg wet	6.67		80.6	30-130			
Surrogate: Nitrobenzene-d5	2.36		mg/Kg wet	3.33		70.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg wet	3.33		81.1	30-130			
Surrogate: 2,4,6-Tribromophenol	5.92		mg/Kg wet	6.67		88.8	30-130			
Surrogate: p-Terphenyl-d14	3.20		mg/Kg wet	3.33		96.1	30-130			

Matrix Spike (B131500-MS1)

Source: 15I1054-22

Prepared: 09/25/15 Analyzed: 09/26/15

Acenaphthene	1.98	0.20	mg/Kg dry	1.94	0.0659	98.7	40-140			
Acenaphthylene	1.79	0.20	mg/Kg dry	1.94	ND	92.2	40-140			
Acetophenone	1.44	0.40	mg/Kg dry	1.94	ND	74.6	40-140			
Aniline	0.807	0.40	mg/Kg dry	1.94	ND	41.7	40-140			
Anthracene	2.19	0.20	mg/Kg dry	1.94	0.197	103	40-140			
Benzidine	ND	0.77	mg/Kg dry	1.94	ND	*	40-140			MS-09, V-04, V-05
Benzo(a)anthracene	3.00	0.20	mg/Kg dry	1.94	0.747	116	40-140			
Benzo(a)pyrene	2.88	0.20	mg/Kg dry	1.94	0.716	111	40-140			
Benzo(b)fluoranthene	3.09	0.20	mg/Kg dry	1.94	0.891	114	40-140			
Benzo(g,h,i)perylene	2.40	0.20	mg/Kg dry	1.94	0.463	99.9	40-140			
Benzo(k)fluoranthene	2.30	0.20	mg/Kg dry	1.94	0.322	102	40-140			
Benzoic Acid	0.533	1.2	mg/Kg dry	1.94	ND	27.5	*	40-140		MS-09
Bis(2-chloroethoxy)methane	1.60	0.40	mg/Kg dry	1.94	ND	82.5	40-140			
Bis(2-chloroethyl)ether	1.62	0.40	mg/Kg dry	1.94	ND	83.7	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131500 - SW-846 3546										
Matrix Spike (B131500-MS1)	Source: 1511054-22			Prepared: 09/25/15 Analyzed: 09/26/15						
Bis(2-chloroisopropyl)ether	1.51	0.40	mg/Kg dry	1.94	ND	77.7	40-140			
Bis(2-Ethylhexyl)phthalate	2.34	0.40	mg/Kg dry	1.94	0.201	110	40-140			
4-Bromophenylphenylether	1.94	0.40	mg/Kg dry	1.94	ND	100	40-140			
Butylbenzylphthalate	2.14	0.40	mg/Kg dry	1.94	ND	110	40-140			
Carbazole	1.97	0.20	mg/Kg dry	1.94	0.0922	96.9	40-140			
4-Chloroaniline	1.06	0.77	mg/Kg dry	1.94	ND	54.5	40-140			
4-Chloro-3-methylphenol	1.76	0.77	mg/Kg dry	1.94	ND	90.9	30-130			
2-Chloronaphthalene	1.71	0.40	mg/Kg dry	1.94	ND	88.1	40-140			
2-Chlorophenol	1.65	0.40	mg/Kg dry	1.94	ND	85.1	30-130			
4-Chlorophenylphenylether	1.90	0.40	mg/Kg dry	1.94	ND	97.8	40-140			
Chrysene	2.82	0.20	mg/Kg dry	1.94	0.736	108	40-140			
Dibenz(a,h)anthracene	2.03	0.20	mg/Kg dry	1.94	ND	105	40-140			
Dibenzofuran	1.90	0.40	mg/Kg dry	1.94	ND	98.1	40-140			
Di-n-butylphthalate	1.91	0.40	mg/Kg dry	1.94	ND	98.7	40-140			
1,2-Dichlorobenzene	1.46	0.40	mg/Kg dry	1.94	ND	75.5	40-140			
1,3-Dichlorobenzene	1.40	0.40	mg/Kg dry	1.94	ND	72.4	40-140			
1,4-Dichlorobenzene	1.39	0.40	mg/Kg dry	1.94	ND	71.8	40-140			
3,3-Dichlorobenzidine	1.14	0.20	mg/Kg dry	1.94	ND	58.7	40-140			
2,4-Dichlorophenol	1.75	0.40	mg/Kg dry	1.94	ND	90.2	30-130			
Diethylphthalate	1.90	0.40	mg/Kg dry	1.94	ND	98.1	40-140			
2,4-Dimethylphenol	1.58	0.40	mg/Kg dry	1.94	ND	81.5	30-130			
Dimethylphthalate	1.87	0.40	mg/Kg dry	1.94	ND	96.3	40-140			
4,6-Dinitro-2-methylphenol	1.50	0.40	mg/Kg dry	1.94	ND	77.5	30-130			
2,4-Dinitrophenol	1.35	0.77	mg/Kg dry	1.94	ND	69.8	30-130			
2,4-Dinitrotoluene	1.87	0.40	mg/Kg dry	1.94	ND	96.7	40-140			
2,6-Dinitrotoluene	1.97	0.40	mg/Kg dry	1.94	ND	102	40-140			
Di-n-octylphthalate	2.54	0.40	mg/Kg dry	1.94	ND	131	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.76	0.40	mg/Kg dry	1.94	ND	91.0	40-140			
Fluoranthene	4.24	0.20	mg/Kg dry	1.94	1.53	140	40-140			MS-22
Fluorene	2.03	0.20	mg/Kg dry	1.94	0.0686	101	40-140			
Hexachlorobenzene	1.73	0.40	mg/Kg dry	1.94	ND	89.4	40-140			
Hexachlorobutadiene	1.52	0.40	mg/Kg dry	1.94	ND	78.4	40-140			
Hexachlorocyclopentadiene	0.384	0.40	mg/Kg dry	1.94	ND	19.8 *	30-130			MS-09
Hexachloroethane	1.40	0.40	mg/Kg dry	1.94	ND	72.4	40-140			
Indeno(1,2,3-cd)pyrene	2.54	0.20	mg/Kg dry	1.94	0.496	105	40-140			
Isophorone	1.62	0.40	mg/Kg dry	1.94	ND	83.8	40-140			
1-Methylnaphthalene	1.57	0.20	mg/Kg dry	1.94	ND	81.2	40-140			
2-Methylnaphthalene	1.75	0.20	mg/Kg dry	1.94	ND	90.1	40-140			
2-Methylphenol	1.61	0.40	mg/Kg dry	1.94	ND	82.9	30-130			
3/4-Methylphenol	1.60	0.40	mg/Kg dry	1.94	ND	82.3	30-130			
Naphthalene	1.68	0.20	mg/Kg dry	1.94	ND	86.7	40-140			
2-Nitroaniline	1.76	0.40	mg/Kg dry	1.94	ND	90.8	40-140			
3-Nitroaniline	1.63	0.40	mg/Kg dry	1.94	ND	84.4	40-140			
4-Nitroaniline	1.70	0.40	mg/Kg dry	1.94	ND	87.5	40-140			
Nitrobenzene	1.49	0.40	mg/Kg dry	1.94	ND	76.8	40-140			
2-Nitrophenol	1.67	0.40	mg/Kg dry	1.94	ND	86.0	30-130			
4-Nitrophenol	1.90	0.77	mg/Kg dry	1.94	ND	97.8	30-130			
N-Nitrosodimethylamine	1.37	0.40	mg/Kg dry	1.94	ND	70.5	40-140			
N-Nitrosodiphenylamine	2.21	0.40	mg/Kg dry	1.94	ND	114	40-140			
N-Nitrosodi-n-propylamine	1.49	0.40	mg/Kg dry	1.94	ND	77.1	40-140			
Pentachloronitrobenzene	1.63	0.40	mg/Kg dry	1.94	ND	84.3	40-140			V-16
Pentachlorophenol	0.983	0.40	mg/Kg dry	1.94	ND	50.7	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131500 - SW-846 3546										
Matrix Spike (B131500-MS1) Source: 15I1054-22 Prepared: 09/25/15 Analyzed: 09/26/15										
Phenanthrene	3.50	0.20	mg/Kg dry	1.94	0.847	137	40-140			R-06
Phenol	1.66	0.40	mg/Kg dry	1.94	ND	85.7	30-130			
Pyrene	4.21	0.20	mg/Kg dry	1.94	1.50	140	40-140			
Pyridine	1.18	0.40	mg/Kg dry	1.94	ND	61.0	40-140			
1,2,4,5-Tetrachlorobenzene	1.64	0.40	mg/Kg dry	1.94	ND	84.8	40-140			
1,2,4-Trichlorobenzene	1.57	0.40	mg/Kg dry	1.94	ND	81.2	40-140			
2,4,5-Trichlorophenol	1.88	0.40	mg/Kg dry	1.94	ND	97.1	30-130			
2,4,6-Trichlorophenol	1.86	0.40	mg/Kg dry	1.94	ND	96.0	30-130			
Surrogate: 2-Fluorophenol	6.99		mg/Kg dry	7.75		90.2	30-130			
Surrogate: Phenol-d6	7.06		mg/Kg dry	7.75		91.1	30-130			
Surrogate: Nitrobenzene-d5	3.23		mg/Kg dry	3.88		83.4	30-130			
Surrogate: 2-Fluorobiphenyl	3.87		mg/Kg dry	3.88		99.8	30-130			
Surrogate: 2,4,6-Tribromophenol	8.11		mg/Kg dry	7.75		105	30-130			
Surrogate: p-Terphenyl-d14	4.48		mg/Kg dry	3.88		116	30-130			
Matrix Spike Dup (B131500-MSD1) Source: 15I1054-22 Prepared: 09/25/15 Analyzed: 09/26/15										
Acenaphthene	1.80	0.20	mg/Kg dry	1.94	0.0659	89.4	40-140	9.58	30	
Acenaphthylene	1.71	0.20	mg/Kg dry	1.94	ND	88.5	40-140	4.07	30	
Acetophenone	1.37	0.40	mg/Kg dry	1.94	ND	70.5	40-140	5.60	30	
Aniline	0.762	0.40	mg/Kg dry	1.94	ND	39.3	* 40-140	5.78	30	MS-22
Anthracene	1.86	0.20	mg/Kg dry	1.94	0.197	85.7	40-140	16.4	30	
Benzidine	ND	0.77	mg/Kg dry	1.94	ND	*	40-140	NC	30	MS-09, V-04, V-05
Benzo(a)anthracene	2.46	0.20	mg/Kg dry	1.94	0.747	88.5	40-140	19.8	30	
Benzo(a)pyrene	2.41	0.20	mg/Kg dry	1.94	0.716	87.6	40-140	17.4	30	
Benzo(b)fluoranthene	2.57	0.20	mg/Kg dry	1.94	0.891	86.5	40-140	18.6	30	
Benzo(g,h,i)perylene	2.04	0.20	mg/Kg dry	1.94	0.463	81.4	40-140	16.1	30	
Benzo(k)fluoranthene	2.19	0.20	mg/Kg dry	1.94	0.322	96.5	40-140	4.80	30	
Benzoic Acid	0.536	1.2	mg/Kg dry	1.94	ND	27.7	* 40-140	0.580	30	MS-09
Bis(2-chloroethoxy)methane	1.55	0.40	mg/Kg dry	1.94	ND	79.8	40-140	3.30	30	
Bis(2-chloroethyl)ether	1.57	0.40	mg/Kg dry	1.94	ND	81.2	40-140	2.98	30	
Bis(2-chloroisopropyl)ether	1.37	0.40	mg/Kg dry	1.94	ND	70.6	40-140	9.55	30	
Bis(2-Ethylhexyl)phthalate	2.20	0.40	mg/Kg dry	1.94	0.201	103	40-140	6.07	30	
4-Bromophenylphenylether	1.83	0.40	mg/Kg dry	1.94	ND	94.5	40-140	6.01	30	
Butylbenzylphthalate	1.96	0.40	mg/Kg dry	1.94	ND	101	40-140	8.67	30	
Carbazole	1.76	0.20	mg/Kg dry	1.94	0.0922	86.3	40-140	11.0	30	
4-Chloroaniline	1.05	0.77	mg/Kg dry	1.94	ND	54.3	40-140	0.331	30	
4-Chloro-3-methylphenol	1.71	0.77	mg/Kg dry	1.94	ND	88.2	30-130	3.06	30	
2-Chloronaphthalene	1.65	0.40	mg/Kg dry	1.94	ND	85.1	40-140	3.40	30	
2-Chlorophenol	1.57	0.40	mg/Kg dry	1.94	ND	80.9	30-130	5.11	30	
4-Chlorophenylphenylether	1.85	0.40	mg/Kg dry	1.94	ND	95.3	40-140	2.57	30	
Chrysene	2.32	0.20	mg/Kg dry	1.94	0.736	81.5	40-140	19.7	30	
Dibenz(a,h)anthracene	1.88	0.20	mg/Kg dry	1.94	ND	97.0	40-140	7.52	30	
Dibenzofuran	1.77	0.40	mg/Kg dry	1.94	ND	91.5	40-140	7.00	30	
Di-n-butylphthalate	1.78	0.40	mg/Kg dry	1.94	ND	91.9	40-140	7.22	30	
1,2-Dichlorobenzene	1.41	0.40	mg/Kg dry	1.94	ND	72.9	40-140	3.53	30	
1,3-Dichlorobenzene	1.38	0.40	mg/Kg dry	1.94	ND	71.3	40-140	1.50	30	
1,4-Dichlorobenzene	1.38	0.40	mg/Kg dry	1.94	ND	71.4	40-140	0.559	30	
3,3-Dichlorobenzidine	1.21	0.20	mg/Kg dry	1.94	ND	62.6	40-140	6.40	30	
2,4-Dichlorophenol	1.69	0.40	mg/Kg dry	1.94	ND	87.0	30-130	3.59	30	
Diethylphthalate	1.82	0.40	mg/Kg dry	1.94	ND	94.0	40-140	4.25	30	
2,4-Dimethylphenol	1.48	0.40	mg/Kg dry	1.94	ND	76.3	30-130	6.52	30	
Dimethylphthalate	1.77	0.40	mg/Kg dry	1.94	ND	91.5	40-140	5.11	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131500 - SW-846 3546										
Matrix Spike Dup (B131500-MSD1)	Source: 1511054-22			Prepared: 09/25/15 Analyzed: 09/26/15						
4,6-Dinitro-2-methylphenol	1.43	0.40	mg/Kg dry	1.94	ND	73.9	30-130	4.73	30	
2,4-Dinitrophenol	1.30	0.77	mg/Kg dry	1.94	ND	66.9	30-130	4.18	30	
2,4-Dinitrotoluene	1.79	0.40	mg/Kg dry	1.94	ND	92.4	40-140	4.48	30	
2,6-Dinitrotoluene	1.88	0.40	mg/Kg dry	1.94	ND	97.0	40-140	4.65	30	
Di-n-octylphthalate	2.43	0.40	mg/Kg dry	1.94	ND	125	40-140	4.48	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.56	0.40	mg/Kg dry	1.94	ND	80.5	40-140	12.2	30	
Fluoranthene	3.17	0.20	mg/Kg dry	1.94	1.53	84.7	40-140	29.0	30	
Fluorene	1.81	0.20	mg/Kg dry	1.94	0.0686	89.8	40-140	11.7	30	
Hexachlorobenzene	1.65	0.40	mg/Kg dry	1.94	ND	85.2	40-140	4.81	30	
Hexachlorobutadiene	1.54	0.40	mg/Kg dry	1.94	ND	79.5	40-140	1.37	30	
Hexachlorocyclopentadiene	0.443	0.40	mg/Kg dry	1.94	ND	22.9	* 30-130	14.3	30	MS-09
Hexachloroethane	1.34	0.40	mg/Kg dry	1.94	ND	69.1	40-140	4.66	30	
Indeno(1,2,3-cd)pyrene	2.21	0.20	mg/Kg dry	1.94	0.496	88.3	40-140	14.1	30	
Isophorone	1.55	0.40	mg/Kg dry	1.94	ND	80.1	40-140	4.49	30	
1-Methylnaphthalene	1.50	0.20	mg/Kg dry	1.94	ND	77.6	40-140	4.58	30	
2-Methylnaphthalene	1.64	0.20	mg/Kg dry	1.94	ND	84.5	40-140	6.39	30	
2-Methylphenol	1.49	0.40	mg/Kg dry	1.94	ND	76.8	30-130	7.62	30	
3/4-Methylphenol	1.46	0.40	mg/Kg dry	1.94	ND	75.1	30-130	9.20	30	
Naphthalene	1.54	0.20	mg/Kg dry	1.94	ND	79.7	40-140	8.42	30	
2-Nitroaniline	1.60	0.40	mg/Kg dry	1.94	ND	82.3	40-140	9.73	30	
3-Nitroaniline	1.60	0.40	mg/Kg dry	1.94	ND	82.7	40-140	2.04	30	
4-Nitroaniline	1.57	0.40	mg/Kg dry	1.94	ND	81.2	40-140	7.40	30	
Nitrobenzene	1.42	0.40	mg/Kg dry	1.94	ND	73.4	40-140	4.50	30	
2-Nitrophenol	1.64	0.40	mg/Kg dry	1.94	ND	84.4	30-130	1.90	30	
4-Nitrophenol	1.75	0.77	mg/Kg dry	1.94	ND	90.5	30-130	7.80	30	
N-Nitrosodimethylamine	1.30	0.40	mg/Kg dry	1.94	ND	67.3	40-140	4.67	30	
N-Nitrosodiphenylamine	2.04	0.40	mg/Kg dry	1.94	ND	105	40-140	7.74	30	
N-Nitrosodi-n-propylamine	1.36	0.40	mg/Kg dry	1.94	ND	69.9	40-140	9.79	30	
Pentachloronitrobenzene	1.64	0.40	mg/Kg dry	1.94	ND	84.6	40-140	0.379	30	V-16
Pentachlorophenol	1.00	0.40	mg/Kg dry	1.94	ND	51.6	30-130	1.76	30	
Phenanthrene	2.46	0.20	mg/Kg dry	1.94	0.847	83.2	40-140	35.0	* 30	R-06
Phenol	1.55	0.40	mg/Kg dry	1.94	ND	79.9	30-130	7.05	30	
Pyrene	3.16	0.20	mg/Kg dry	1.94	1.50	85.6	40-140	28.5	30	
Pyridine	1.15	0.40	mg/Kg dry	1.94	ND	59.2	40-140	2.96	30	
1,2,4,5-Tetrachlorobenzene	1.57	0.40	mg/Kg dry	1.94	ND	80.9	40-140	4.71	30	
1,2,4-Trichlorobenzene	1.57	0.40	mg/Kg dry	1.94	ND	81.2	40-140	0.0493	30	
2,4,5-Trichlorophenol	1.78	0.40	mg/Kg dry	1.94	ND	91.7	30-130	5.70	30	
2,4,6-Trichlorophenol	1.80	0.40	mg/Kg dry	1.94	ND	93.0	30-130	3.13	30	
Surrogate: 2-Fluorophenol	6.73		mg/Kg dry	7.75		86.9	30-130			
Surrogate: Phenol-d6	6.59		mg/Kg dry	7.75		85.0	30-130			
Surrogate: Nitrobenzene-d5	3.05		mg/Kg dry	3.88		78.7	30-130			
Surrogate: 2-Fluorobiphenyl	3.70		mg/Kg dry	3.88		95.3	30-130			
Surrogate: 2,4,6-Tribromophenol	8.03		mg/Kg dry	7.75		104	30-130			
Surrogate: p-Terphenyl-d14	4.22		mg/Kg dry	3.88		109	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131546 - SW-846 3546

Blank (B131546-BLK1)

Prepared: 09/25/15 Analyzed: 09/28/15

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzidine	ND	0.66	mg/Kg wet							V-04, V-05
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131546 - SW-846 3546

Blank (B131546-BLK1)

Prepared: 09/25/15 Analyzed: 09/28/15

2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							

Surrogate: 2-Fluorophenol	7.17		mg/Kg wet	6.67		108	30-130			
Surrogate: Phenol-d6	6.89		mg/Kg wet	6.67		103	30-130			
Surrogate: Nitrobenzene-d5	3.15		mg/Kg wet	3.33		94.5	30-130			
Surrogate: 2-Fluorobiphenyl	3.66		mg/Kg wet	3.33		110	30-130			
Surrogate: 2,4,6-Tribromophenol	7.71		mg/Kg wet	6.67		116	30-130			
Surrogate: p-Terphenyl-d14	4.03		mg/Kg wet	3.33		121	30-130			

LCS (B131546-BS1)

Prepared: 09/25/15 Analyzed: 09/28/15

Acenaphthene	1.63	0.17	mg/Kg wet	1.67		97.9	40-140			
Acenaphthylene	1.56	0.17	mg/Kg wet	1.67		93.9	40-140			
Acetophenone	1.37	0.34	mg/Kg wet	1.67		81.9	40-140			
Aniline	0.972	0.34	mg/Kg wet	1.67		58.3	10-140			†
Anthracene	1.58	0.17	mg/Kg wet	1.67		94.9	40-140			
Benzidine	1.46	0.66	mg/Kg wet	1.67		87.8	40-140			V-04, V-05
Benzo(a)anthracene	1.67	0.17	mg/Kg wet	1.67		100	40-140			
Benzo(a)pyrene	1.68	0.17	mg/Kg wet	1.67		101	40-140			
Benzo(b)fluoranthene	1.64	0.17	mg/Kg wet	1.67		98.2	40-140			
Benzo(g,h,i)perylene	1.72	0.17	mg/Kg wet	1.67		103	40-140			
Benzo(k)fluoranthene	1.64	0.17	mg/Kg wet	1.67		98.2	40-140			
Benzoic Acid	1.03	1.0	mg/Kg wet	1.67		61.8	30-130			
Bis(2-chloroethoxy)methane	1.54	0.34	mg/Kg wet	1.67		92.3	40-140			
Bis(2-chloroethyl)ether	1.60	0.34	mg/Kg wet	1.67		95.8	40-140			
Bis(2-chloroisopropyl)ether	1.44	0.34	mg/Kg wet	1.67		86.3	40-140			
Bis(2-Ethylhexyl)phthalate	1.95	0.34	mg/Kg wet	1.67		117	40-140			
4-Bromophenylphenylether	1.73	0.34	mg/Kg wet	1.67		104	40-140			
Butylbenzylphthalate	1.91	0.34	mg/Kg wet	1.67		115	40-140			
Carbazole	1.58	0.17	mg/Kg wet	1.67		94.5	40-140			
4-Chloroaniline	0.959	0.66	mg/Kg wet	1.67		57.6	10-140			†
4-Chloro-3-methylphenol	1.62	0.66	mg/Kg wet	1.67		97.4	30-130			
2-Chloronaphthalene	1.46	0.34	mg/Kg wet	1.67		87.4	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131546 - SW-846 3546										
LCS (B131546-BS1)										
					Prepared: 09/25/15 Analyzed: 09/28/15					
2-Chlorophenol	1.57	0.34	mg/Kg wet	1.67		94.2	30-130			
4-Chlorophenylphenylether	1.68	0.34	mg/Kg wet	1.67		101	40-140			
Chrysene	1.60	0.17	mg/Kg wet	1.67		96.2	40-140			
Dibenz(a,h)anthracene	1.80	0.17	mg/Kg wet	1.67		108	40-140			
Dibenzofuran	1.59	0.34	mg/Kg wet	1.67		95.3	40-140			
Di-n-butylphthalate	1.67	0.34	mg/Kg wet	1.67		100	40-140			
1,2-Dichlorobenzene	1.40	0.34	mg/Kg wet	1.67		83.8	40-140			
1,3-Dichlorobenzene	1.35	0.34	mg/Kg wet	1.67		81.2	40-140			
1,4-Dichlorobenzene	1.36	0.34	mg/Kg wet	1.67		81.4	40-140			
3,3-Dichlorobenzidine	1.24	0.17	mg/Kg wet	1.67		74.1	20-140			†
2,4-Dichlorophenol	1.60	0.34	mg/Kg wet	1.67		95.8	30-130			
Diethylphthalate	1.70	0.34	mg/Kg wet	1.67		102	40-140			
2,4-Dimethylphenol	1.50	0.34	mg/Kg wet	1.67		90.1	30-130			
Dimethylphthalate	1.70	0.34	mg/Kg wet	1.67		102	40-140			
4,6-Dinitro-2-methylphenol	1.50	0.34	mg/Kg wet	1.67		90.2	30-130			
2,4-Dinitrophenol	0.941	0.66	mg/Kg wet	1.67		56.5	30-130			
2,4-Dinitrotoluene	1.65	0.34	mg/Kg wet	1.67		98.8	40-140			
2,6-Dinitrotoluene	1.75	0.34	mg/Kg wet	1.67		105	40-140			
Di-n-octylphthalate	1.99	0.34	mg/Kg wet	1.67		120	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.63	0.34	mg/Kg wet	1.67		97.5	40-140			
Fluoranthene	1.57	0.17	mg/Kg wet	1.67		94.3	40-140			
Fluorene	1.62	0.17	mg/Kg wet	1.67		97.2	40-140			
Hexachlorobenzene	1.57	0.34	mg/Kg wet	1.67		94.0	40-140			
Hexachlorobutadiene	1.41	0.34	mg/Kg wet	1.67		84.3	40-140			
Hexachlorocyclopentadiene	1.10	0.34	mg/Kg wet	1.67		65.9	40-140			
Hexachloroethane	1.44	0.34	mg/Kg wet	1.67		86.2	40-140			
Indeno(1,2,3-cd)pyrene	1.76	0.17	mg/Kg wet	1.67		106	40-140			
Isophorone	1.54	0.34	mg/Kg wet	1.67		92.5	40-140			
1-Methylnaphthalene	1.38	0.17	mg/Kg wet	1.67		82.9	40-140			
2-Methylnaphthalene	1.52	0.17	mg/Kg wet	1.67		91.2	40-140			
2-Methylphenol	1.50	0.34	mg/Kg wet	1.67		90.0	30-130			
3/4-Methylphenol	1.49	0.34	mg/Kg wet	1.67		89.2	30-130			
Naphthalene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140			
2-Nitroaniline	1.62	0.34	mg/Kg wet	1.67		97.2	40-140			
3-Nitroaniline	1.51	0.34	mg/Kg wet	1.67		90.5	30-140			†
4-Nitroaniline	1.61	0.34	mg/Kg wet	1.67		96.6	40-140			
Nitrobenzene	1.39	0.34	mg/Kg wet	1.67		83.6	40-140			
2-Nitrophenol	1.57	0.34	mg/Kg wet	1.67		94.1	30-130			
4-Nitrophenol	1.52	0.66	mg/Kg wet	1.67		91.0	30-130			
N-Nitrosodimethylamine	1.41	0.34	mg/Kg wet	1.67		84.5	40-140			
N-Nitrosodiphenylamine	2.04	0.34	mg/Kg wet	1.67		122	40-140			
N-Nitrosodi-n-propylamine	1.43	0.34	mg/Kg wet	1.67		86.0	40-140			
Pentachloronitrobenzene	1.51	0.34	mg/Kg wet	1.67		90.8	40-140			V-16
Pentachlorophenol	1.32	0.34	mg/Kg wet	1.67		79.2	30-130			
Phenanthrene	1.63	0.17	mg/Kg wet	1.67		97.9	40-140			
Phenol	1.60	0.34	mg/Kg wet	1.67		95.8	30-130			
Pyrene	1.74	0.17	mg/Kg wet	1.67		104	40-140			
Pyridine	1.22	0.34	mg/Kg wet	1.67		73.1	30-140			†
1,2,4,5-Tetrachlorobenzene	1.47	0.34	mg/Kg wet	1.67		88.2	40-140			
1,2,4-Trichlorobenzene	1.44	0.34	mg/Kg wet	1.67		86.5	40-140			
2,4,5-Trichlorophenol	1.68	0.34	mg/Kg wet	1.67		101	30-130			
2,4,6-Trichlorophenol	1.67	0.34	mg/Kg wet	1.67		100	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131546 - SW-846 3546

LCS (B131546-BS1)

Prepared: 09/25/15 Analyzed: 09/28/15

Surrogate: 2-Fluorophenol	6.96		mg/Kg wet	6.67		104	30-130			
Surrogate: Phenol-d6	6.76		mg/Kg wet	6.67		101	30-130			
Surrogate: Nitrobenzene-d5	3.04		mg/Kg wet	3.33		91.1	30-130			
Surrogate: 2-Fluorobiphenyl	3.50		mg/Kg wet	3.33		105	30-130			
Surrogate: 2,4,6-Tribromophenol	7.32		mg/Kg wet	6.67		110	30-130			
Surrogate: p-Terphenyl-d14	3.97		mg/Kg wet	3.33		119	30-130			

LCS Dup (B131546-BSD1)

Prepared: 09/25/15 Analyzed: 09/28/15

Acenaphthene	1.49	0.17	mg/Kg wet	1.67		89.2	40-140	9.26	30	
Acenaphthylene	1.42	0.17	mg/Kg wet	1.67		85.3	40-140	9.56	30	
Acetophenone	1.17	0.34	mg/Kg wet	1.67		70.4	40-140	15.2	30	
Aniline	0.828	0.34	mg/Kg wet	1.67		49.7	10-140	16.0	50	† ‡
Anthracene	1.45	0.17	mg/Kg wet	1.67		87.1	40-140	8.55	30	
Benzdine	1.31	0.66	mg/Kg wet	1.67		78.4	40-140	11.3	30	V-04, V-05
Benzo(a)anthracene	1.53	0.17	mg/Kg wet	1.67		92.0	40-140	8.75	30	
Benzo(a)pyrene	1.51	0.17	mg/Kg wet	1.67		90.4	40-140	10.8	30	
Benzo(b)fluoranthene	1.50	0.17	mg/Kg wet	1.67		89.8	40-140	8.94	30	
Benzo(g,h,i)perylene	1.56	0.17	mg/Kg wet	1.67		93.6	40-140	9.81	30	
Benzo(k)fluoranthene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140	10.6	30	
Benzoic Acid	0.891	1.0	mg/Kg wet	1.67		53.5	30-130	14.5	50	‡
Bis(2-chloroethoxy)methane	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	15.5	30	
Bis(2-chloroethyl)ether	1.35	0.34	mg/Kg wet	1.67		81.1	40-140	16.6	30	
Bis(2-chloroisopropyl)ether	1.21	0.34	mg/Kg wet	1.67		72.8	40-140	16.9	30	
Bis(2-Ethylhexyl)phthalate	1.75	0.34	mg/Kg wet	1.67		105	40-140	10.8	30	
4-Bromophenylphenylether	1.61	0.34	mg/Kg wet	1.67		96.3	40-140	7.24	30	
Butylbenzylphthalate	1.71	0.34	mg/Kg wet	1.67		103	40-140	11.2	30	
Carbazole	1.44	0.17	mg/Kg wet	1.67		86.5	40-140	8.84	30	
4-Chloroaniline	0.875	0.66	mg/Kg wet	1.67		52.5	10-140	9.19	30	†
4-Chloro-3-methylphenol	1.44	0.66	mg/Kg wet	1.67		86.4	30-130	12.1	30	
2-Chloronaphthalene	1.37	0.34	mg/Kg wet	1.67		82.4	40-140	5.91	30	
2-Chlorophenol	1.35	0.34	mg/Kg wet	1.67		80.9	30-130	15.1	30	
4-Chlorophenylphenylether	1.54	0.34	mg/Kg wet	1.67		92.2	40-140	9.23	30	
Chrysene	1.45	0.17	mg/Kg wet	1.67		87.2	40-140	9.84	30	
Dibenz(a,h)anthracene	1.57	0.17	mg/Kg wet	1.67		94.3	40-140	13.5	30	
Dibenzofuran	1.48	0.34	mg/Kg wet	1.67		88.7	40-140	7.24	30	
Di-n-butylphthalate	1.53	0.34	mg/Kg wet	1.67		91.8	40-140	8.57	30	
1,2-Dichlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	14.4	30	
1,3-Dichlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.5	40-140	15.4	30	
1,4-Dichlorobenzene	1.17	0.34	mg/Kg wet	1.67		69.9	40-140	15.1	30	
3,3-Dichlorobenzidine	1.16	0.17	mg/Kg wet	1.67		69.6	20-140	6.37	50	† ‡
2,4-Dichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.8	30-130	11.0	30	
Diethylphthalate	1.56	0.34	mg/Kg wet	1.67		93.4	40-140	9.06	30	
2,4-Dimethylphenol	1.33	0.34	mg/Kg wet	1.67		79.6	30-130	12.5	30	
Dimethylphthalate	1.56	0.34	mg/Kg wet	1.67		93.8	40-140	8.61	30	
4,6-Dinitro-2-methylphenol	1.34	0.34	mg/Kg wet	1.67		80.5	30-130	11.4	30	
2,4-Dinitrophenol	0.847	0.66	mg/Kg wet	1.67		50.8	30-130	10.6	30	
2,4-Dinitrotoluene	1.50	0.34	mg/Kg wet	1.67		90.2	40-140	9.16	30	
2,6-Dinitrotoluene	1.62	0.34	mg/Kg wet	1.67		97.4	40-140	7.53	30	
Di-n-octylphthalate	1.82	0.34	mg/Kg wet	1.67		109	40-140	8.77	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.46	0.34	mg/Kg wet	1.67		87.8	40-140	10.4	30	
Fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140	8.45	30	
Fluorene	1.49	0.17	mg/Kg wet	1.67		89.5	40-140	8.20	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131546 - SW-846 3546

LCS Dup (B131546-BSD1)

Prepared: 09/25/15 Analyzed: 09/28/15

Hexachlorobenzene	1.41	0.34	mg/Kg wet	1.67		84.6	40-140	10.5	30	
Hexachlorobutadiene	1.21	0.34	mg/Kg wet	1.67		72.4	40-140	15.2	30	
Hexachlorocyclopentadiene	1.02	0.34	mg/Kg wet	1.67		61.4	40-140	7.07	30	
Hexachloroethane	1.21	0.34	mg/Kg wet	1.67		72.6	40-140	17.1	30	
Indeno(1,2,3-cd)pyrene	1.59	0.17	mg/Kg wet	1.67		95.7	40-140	9.80	30	
Isophorone	1.35	0.34	mg/Kg wet	1.67		80.9	40-140	13.4	30	
1-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140	12.6	30	
2-Methylnaphthalene	1.33	0.17	mg/Kg wet	1.67		80.1	40-140	13.0	30	
2-Methylphenol	1.31	0.34	mg/Kg wet	1.67		78.9	30-130	13.2	30	
3/4-Methylphenol	1.29	0.34	mg/Kg wet	1.67		77.4	30-130	14.3	30	
Naphthalene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140	15.2	30	
2-Nitroaniline	1.46	0.34	mg/Kg wet	1.67		87.7	40-140	10.3	30	
3-Nitroaniline	1.38	0.34	mg/Kg wet	1.67		82.9	30-140	8.77	30	†
4-Nitroaniline	1.47	0.34	mg/Kg wet	1.67		88.4	40-140	8.82	30	
Nitrobenzene	1.18	0.34	mg/Kg wet	1.67		70.7	40-140	16.7	30	
2-Nitrophenol	1.34	0.34	mg/Kg wet	1.67		80.4	30-130	15.7	30	
4-Nitrophenol	1.32	0.66	mg/Kg wet	1.67		79.5	30-130	13.5	50	‡
N-Nitrosodimethylamine	1.15	0.34	mg/Kg wet	1.67		69.2	40-140	19.9	30	
N-Nitrosodiphenylamine	1.84	0.34	mg/Kg wet	1.67		111	40-140	9.94	30	
N-Nitrosodi-n-propylamine	1.23	0.34	mg/Kg wet	1.67		73.9	40-140	15.1	30	
Pentachloronitrobenzene	1.40	0.34	mg/Kg wet	1.67		84.1	40-140	7.71	30	V-16
Pentachlorophenol	1.17	0.34	mg/Kg wet	1.67		70.1	30-130	12.2	30	
Phenanthrene	1.49	0.17	mg/Kg wet	1.67		89.2	40-140	9.30	30	
Phenol	1.36	0.34	mg/Kg wet	1.67		81.9	30-130	15.7	30	
Pyrene	1.56	0.17	mg/Kg wet	1.67		93.4	40-140	11.2	30	
Pyridine	1.02	0.34	mg/Kg wet	1.67		61.0	30-140	18.0	30	†
1,2,4,5-Tetrachlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.3	40-140	9.35	30	
1,2,4-Trichlorobenzene	1.23	0.34	mg/Kg wet	1.67		74.0	40-140	15.5	30	
2,4,5-Trichlorophenol	1.52	0.34	mg/Kg wet	1.67		91.0	30-130	10.4	30	
2,4,6-Trichlorophenol	1.53	0.34	mg/Kg wet	1.67		91.6	30-130	8.97	30	

Surrogate: 2-Fluorophenol	5.80		mg/Kg wet	6.67		87.0	30-130			
Surrogate: Phenol-d6	5.77		mg/Kg wet	6.67		86.6	30-130			
Surrogate: Nitrobenzene-d5	2.52		mg/Kg wet	3.33		75.7	30-130			
Surrogate: 2-Fluorobiphenyl	3.16		mg/Kg wet	3.33		94.7	30-130			
Surrogate: 2,4,6-Tribromophenol	6.81		mg/Kg wet	6.67		102	30-130			
Surrogate: p-Terphenyl-d14	3.53		mg/Kg wet	3.33		106	30-130			

Matrix Spike (B131546-MS1)

Source: 15I1054-15

Prepared: 09/25/15 Analyzed: 09/29/15

Acenaphthene	2.06	0.21	mg/Kg dry	2.08	ND	99.3	40-140			
Acenaphthylene	1.98	0.21	mg/Kg dry	2.08	ND	95.3	40-140			
Acetophenone	1.66	0.42	mg/Kg dry	2.08	ND	80.0	40-140			
Aniline	0.729	0.42	mg/Kg dry	2.08	ND	35.1	* 40-140			MS-09
Anthracene	1.97	0.21	mg/Kg dry	2.08	ND	94.8	40-140			
Benzidine	ND	0.82	mg/Kg dry	2.08	ND	*	40-140			MS-09, V-04, V-05
Benzo(a)anthracene	2.08	0.21	mg/Kg dry	2.08	0.0926	95.6	40-140			
Benzo(a)pyrene	2.05	0.21	mg/Kg dry	2.08	0.102	93.6	40-140			
Benzo(b)fluoranthene	1.96	0.21	mg/Kg dry	2.08	0.154	87.0	40-140			
Benzo(g,h,i)perylene	1.75	0.21	mg/Kg dry	2.08	0.0951	79.5	40-140			
Benzo(k)fluoranthene	1.92	0.21	mg/Kg dry	2.08	ND	92.5	40-140			
Benzoic Acid	0.750	1.2	mg/Kg dry	2.08	ND	36.1	* 40-140			MS-09
Bis(2-chloroethoxy)methane	1.89	0.42	mg/Kg dry	2.08	ND	91.1	40-140			
Bis(2-chloroethyl)ether	1.92	0.42	mg/Kg dry	2.08	ND	92.5	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131546 - SW-846 3546										
Matrix Spike (B131546-MS1)	Source: 1511054-15			Prepared: 09/25/15 Analyzed: 09/29/15						
Bis(2-chloroisopropyl)ether	1.64	0.42	mg/Kg dry	2.08	ND	78.9	40-140			
Bis(2-Ethylhexyl)phthalate	2.25	0.42	mg/Kg dry	2.08	ND	109	40-140			
4-Bromophenylphenylether	2.15	0.42	mg/Kg dry	2.08	ND	103	40-140			
Butylbenzylphthalate	2.33	0.42	mg/Kg dry	2.08	ND	112	40-140			
Carbazole	1.93	0.21	mg/Kg dry	2.08	ND	93.1	40-140			
4-Chloroaniline	1.04	0.82	mg/Kg dry	2.08	ND	50.3	40-140			
4-Chloro-3-methylphenol	1.96	0.82	mg/Kg dry	2.08	ND	94.6	30-130			
2-Chloronaphthalene	1.99	0.42	mg/Kg dry	2.08	ND	96.0	40-140			R-06
2-Chlorophenol	1.89	0.42	mg/Kg dry	2.08	ND	90.9	30-130			
4-Chlorophenylphenylether	2.14	0.42	mg/Kg dry	2.08	ND	103	40-140			
Chrysene	2.00	0.21	mg/Kg dry	2.08	0.119	90.4	40-140			
Dibenz(a,h)anthracene	2.01	0.21	mg/Kg dry	2.08	ND	96.7	40-140			
Dibenzofuran	2.02	0.42	mg/Kg dry	2.08	ND	97.1	40-140			
Di-n-butylphthalate	2.00	0.42	mg/Kg dry	2.08	ND	96.3	40-140			
1,2-Dichlorobenzene	1.74	0.42	mg/Kg dry	2.08	ND	83.7	40-140			
1,3-Dichlorobenzene	1.67	0.42	mg/Kg dry	2.08	ND	80.3	40-140			
1,4-Dichlorobenzene	1.65	0.42	mg/Kg dry	2.08	ND	79.6	40-140			
3,3-Dichlorobenzidine	1.50	0.21	mg/Kg dry	2.08	ND	72.4	40-140			
2,4-Dichlorophenol	2.00	0.42	mg/Kg dry	2.08	ND	96.5	30-130			
Diethylphthalate	2.14	0.42	mg/Kg dry	2.08	ND	103	40-140			
2,4-Dimethylphenol	1.68	0.42	mg/Kg dry	2.08	ND	81.0	30-130			
Dimethylphthalate	2.12	0.42	mg/Kg dry	2.08	ND	102	40-140			
4,6-Dinitro-2-methylphenol	1.06	0.42	mg/Kg dry	2.08	ND	51.0	30-130			
2,4-Dinitrophenol	0.554	0.82	mg/Kg dry	2.08	ND	26.7 *	30-130			MS-09
2,4-Dinitrotoluene	2.08	0.42	mg/Kg dry	2.08	ND	100	40-140			
2,6-Dinitrotoluene	2.22	0.42	mg/Kg dry	2.08	ND	107	40-140			
Di-n-octylphthalate	2.11	0.42	mg/Kg dry	2.08	ND	102	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.82	0.42	mg/Kg dry	2.08	ND	87.5	40-140			
Fluoranthene	2.17	0.21	mg/Kg dry	2.08	0.167	96.4	40-140			
Fluorene	2.08	0.21	mg/Kg dry	2.08	ND	100	40-140			
Hexachlorobenzene	1.91	0.42	mg/Kg dry	2.08	ND	92.0	40-140			
Hexachlorobutadiene	1.81	0.42	mg/Kg dry	2.08	ND	87.2	40-140			
Hexachlorocyclopentadiene	0.936	0.42	mg/Kg dry	2.08	ND	45.1	30-130			
Hexachloroethane	1.69	0.42	mg/Kg dry	2.08	ND	81.6	40-140			
Indeno(1,2,3-cd)pyrene	1.90	0.21	mg/Kg dry	2.08	ND	91.4	40-140			
Isophorone	1.90	0.42	mg/Kg dry	2.08	ND	91.7	40-140			
1-Methylnaphthalene	1.76	0.21	mg/Kg dry	2.08	ND	84.8	40-140			
2-Methylnaphthalene	1.94	0.21	mg/Kg dry	2.08	ND	93.5	40-140			
2-Methylphenol	1.74	0.42	mg/Kg dry	2.08	ND	83.6	30-130			
3/4-Methylphenol	1.69	0.42	mg/Kg dry	2.08	ND	81.6	30-130			
Naphthalene	1.81	0.21	mg/Kg dry	2.08	ND	87.3	40-140			
2-Nitroaniline	1.89	0.42	mg/Kg dry	2.08	ND	90.9	40-140			
3-Nitroaniline	1.76	0.42	mg/Kg dry	2.08	ND	85.0	40-140			
4-Nitroaniline	1.81	0.42	mg/Kg dry	2.08	ND	87.2	40-140			
Nitrobenzene	1.77	0.42	mg/Kg dry	2.08	ND	85.2	40-140			
2-Nitrophenol	1.96	0.42	mg/Kg dry	2.08	ND	94.3	30-130			
4-Nitrophenol	1.93	0.82	mg/Kg dry	2.08	ND	92.9	30-130			
N-Nitrosodimethylamine	1.54	0.42	mg/Kg dry	2.08	ND	74.1	40-140			
N-Nitrosodiphenylamine	2.41	0.42	mg/Kg dry	2.08	ND	116	40-140			
N-Nitrosodi-n-propylamine	1.70	0.42	mg/Kg dry	2.08	ND	81.7	40-140			
Pentachloronitrobenzene	1.85	0.42	mg/Kg dry	2.08	ND	89.2	40-140			V-16
Pentachlorophenol	1.35	0.42	mg/Kg dry	2.08	ND	65.1	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131546 - SW-846 3546										
Matrix Spike (B131546-MS1)	Source: 1511054-15			Prepared: 09/25/15 Analyzed: 09/29/15						
Phenanthrene	2.10	0.21	mg/Kg dry	2.08	ND	101	40-140			
Phenol	1.84	0.42	mg/Kg dry	2.08	ND	88.9	30-130			
Pyrene	2.44	0.21	mg/Kg dry	2.08	0.161	110	40-140			
Pyridine	1.35	0.42	mg/Kg dry	2.08	ND	65.3	40-140			
1,2,4,5-Tetrachlorobenzene	1.85	0.42	mg/Kg dry	2.08	ND	89.2	40-140			
1,2,4-Trichlorobenzene	1.85	0.42	mg/Kg dry	2.08	ND	89.2	40-140			
2,4,5-Trichlorophenol	2.16	0.42	mg/Kg dry	2.08	ND	104	30-130			
2,4,6-Trichlorophenol	2.12	0.42	mg/Kg dry	2.08	ND	102	30-130			
Surrogate: 2-Fluorophenol	7.95		mg/Kg dry	8.30		95.7	30-130			
Surrogate: Phenol-d6	7.79		mg/Kg dry	8.30		93.8	30-130			
Surrogate: Nitrobenzene-d5	3.73		mg/Kg dry	4.15		89.9	30-130			
Surrogate: 2-Fluorobiphenyl	4.32		mg/Kg dry	4.15		104	30-130			
Surrogate: 2,4,6-Tribromophenol	9.35		mg/Kg dry	8.30		113	30-130			
Surrogate: p-Terphenyl-d14	5.06		mg/Kg dry	4.15		122	30-130			
Matrix Spike Dup (B131546-MSD1)	Source: 1511054-15			Prepared: 09/25/15 Analyzed: 09/29/15						
Acenaphthene	1.81	0.21	mg/Kg dry	2.08	ND	87.2	40-140	13.0	30	
Acenaphthylene	1.72	0.21	mg/Kg dry	2.08	ND	83.0	40-140	13.7	30	
Acetophenone	1.42	0.42	mg/Kg dry	2.08	ND	68.3	40-140	15.8	30	
Aniline	0.666	0.42	mg/Kg dry	2.08	ND	32.1	* 40-140	8.99	30	MS-09
Anthracene	1.75	0.21	mg/Kg dry	2.08	ND	84.5	40-140	11.5	30	
Benzidine	ND	0.82	mg/Kg dry	2.08	ND		* 40-140		30	MS-09, V-04, V-05
Benzo(a)anthracene	1.91	0.21	mg/Kg dry	2.08	0.0926	87.5	40-140	8.48	30	
Benzo(a)pyrene	1.86	0.21	mg/Kg dry	2.08	0.102	84.7	40-140	9.52	30	
Benzo(b)fluoranthene	1.78	0.21	mg/Kg dry	2.08	0.154	78.5	40-140	9.45	30	
Benzo(g,h,i)perylene	1.59	0.21	mg/Kg dry	2.08	0.0951	71.9	40-140	9.54	30	
Benzo(k)fluoranthene	1.76	0.21	mg/Kg dry	2.08	ND	84.9	40-140	8.57	30	
Benzoic Acid	0.775	1.2	mg/Kg dry	2.08	ND	37.3	* 40-140	3.32	30	MS-09
Bis(2-chloroethoxy)methane	1.66	0.42	mg/Kg dry	2.08	ND	79.8	40-140	13.2	30	
Bis(2-chloroethyl)ether	1.59	0.42	mg/Kg dry	2.08	ND	76.7	40-140	18.7	30	
Bis(2-chloroisopropyl)ether	1.40	0.42	mg/Kg dry	2.08	ND	67.6	40-140	15.5	30	
Bis(2-Ethylhexyl)phthalate	2.13	0.42	mg/Kg dry	2.08	ND	103	40-140	5.51	30	
4-Bromophenylphenylether	1.91	0.42	mg/Kg dry	2.08	ND	92.2	40-140	11.4	30	
Butylbenzylphthalate	2.11	0.42	mg/Kg dry	2.08	ND	102	40-140	9.65	30	
Carbazole	1.76	0.21	mg/Kg dry	2.08	ND	84.8	40-140	9.42	30	
4-Chloroaniline	1.00	0.82	mg/Kg dry	2.08	ND	48.4	40-140	3.81	30	
4-Chloro-3-methylphenol	1.81	0.82	mg/Kg dry	2.08	ND	87.0	30-130	8.39	30	
2-Chloronaphthalene	1.44	0.42	mg/Kg dry	2.08	ND	69.4	40-140	32.1	* 30	R-06
2-Chlorophenol	1.61	0.42	mg/Kg dry	2.08	ND	77.6	30-130	15.7	30	
4-Chlorophenylphenylether	1.88	0.42	mg/Kg dry	2.08	ND	90.4	40-140	12.9	30	
Chrysene	1.81	0.21	mg/Kg dry	2.08	0.119	81.5	40-140	9.69	30	
Dibenz(a,h)anthracene	1.82	0.21	mg/Kg dry	2.08	ND	87.8	40-140	9.62	30	
Dibenzofuran	1.79	0.42	mg/Kg dry	2.08	ND	86.2	40-140	11.9	30	
Di-n-butylphthalate	1.81	0.42	mg/Kg dry	2.08	ND	87.3	40-140	9.81	30	
1,2-Dichlorobenzene	1.39	0.42	mg/Kg dry	2.08	ND	66.8	40-140	22.4	30	
1,3-Dichlorobenzene	1.32	0.42	mg/Kg dry	2.08	ND	63.7	40-140	23.1	30	
1,4-Dichlorobenzene	1.33	0.42	mg/Kg dry	2.08	ND	64.2	40-140	21.3	30	
3,3-Dichlorobenzidine	1.45	0.21	mg/Kg dry	2.08	ND	69.7	40-140	3.86	30	
2,4-Dichlorophenol	1.78	0.42	mg/Kg dry	2.08	ND	85.9	30-130	11.6	30	
Diethylphthalate	1.89	0.42	mg/Kg dry	2.08	ND	90.9	40-140	12.6	30	
2,4-Dimethylphenol	1.51	0.42	mg/Kg dry	2.08	ND	72.9	30-130	10.6	30	
Dimethylphthalate	1.89	0.42	mg/Kg dry	2.08	ND	91.2	40-140	11.5	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131546 - SW-846 3546										
Matrix Spike Dup (B131546-MSD1)	Source: 1511054-15			Prepared: 09/25/15 Analyzed: 09/29/15						
4,6-Dinitro-2-methylphenol	1.05	0.42	mg/Kg dry	2.08	ND	50.7	30-130	0.629	30	
2,4-Dinitrophenol	0.557	0.82	mg/Kg dry	2.08	ND	26.8	* 30-130	0.523	30	MS-09
2,4-Dinitrotoluene	1.88	0.42	mg/Kg dry	2.08	ND	90.5	40-140	10.1	30	
2,6-Dinitrotoluene	1.99	0.42	mg/Kg dry	2.08	ND	95.8	40-140	11.2	30	
Di-n-octylphthalate	1.96	0.42	mg/Kg dry	2.08	ND	94.4	40-140	7.29	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.70	0.42	mg/Kg dry	2.08	ND	81.8	40-140	6.78	30	
Fluoranthene	1.95	0.21	mg/Kg dry	2.08	0.167	86.1	40-140	10.4	30	
Fluorene	1.82	0.21	mg/Kg dry	2.08	ND	87.8	40-140	13.3	30	
Hexachlorobenzene	1.73	0.42	mg/Kg dry	2.08	ND	83.1	40-140	10.1	30	
Hexachlorobutadiene	1.49	0.42	mg/Kg dry	2.08	ND	71.7	40-140	19.4	30	
Hexachlorocyclopentadiene	0.778	0.42	mg/Kg dry	2.08	ND	37.5	30-130	18.5	30	
Hexachloroethane	1.33	0.42	mg/Kg dry	2.08	ND	63.9	40-140	24.4	30	
Indeno(1,2,3-cd)pyrene	1.69	0.21	mg/Kg dry	2.08	ND	81.6	40-140	11.2	30	
Isophorone	1.68	0.42	mg/Kg dry	2.08	ND	80.8	40-140	12.7	30	
1-Methylnaphthalene	1.54	0.21	mg/Kg dry	2.08	ND	74.0	40-140	13.6	30	
2-Methylnaphthalene	1.69	0.21	mg/Kg dry	2.08	ND	81.4	40-140	13.9	30	
2-Methylphenol	1.54	0.42	mg/Kg dry	2.08	ND	74.2	30-130	12.0	30	
3/4-Methylphenol	1.55	0.42	mg/Kg dry	2.08	ND	74.8	30-130	8.70	30	
Naphthalene	1.53	0.21	mg/Kg dry	2.08	ND	73.6	40-140	17.0	30	
2-Nitroaniline	1.70	0.42	mg/Kg dry	2.08	ND	81.7	40-140	10.6	30	
3-Nitroaniline	1.64	0.42	mg/Kg dry	2.08	ND	79.0	40-140	7.37	30	
4-Nitroaniline	1.67	0.42	mg/Kg dry	2.08	ND	80.7	40-140	7.74	30	
Nitrobenzene	1.48	0.42	mg/Kg dry	2.08	ND	71.2	40-140	18.0	30	
2-Nitrophenol	1.68	0.42	mg/Kg dry	2.08	ND	81.1	30-130	15.0	30	
4-Nitrophenol	1.74	0.82	mg/Kg dry	2.08	ND	84.0	30-130	10.0	30	
N-Nitrosodimethylamine	1.26	0.42	mg/Kg dry	2.08	ND	60.7	40-140	19.9	30	
N-Nitrosodiphenylamine	2.20	0.42	mg/Kg dry	2.08	ND	106	40-140	9.29	30	
N-Nitrosodi-n-propylamine	1.49	0.42	mg/Kg dry	2.08	ND	71.7	40-140	13.0	30	
Pentachloronitrobenzene	1.69	0.42	mg/Kg dry	2.08	ND	81.3	40-140	9.36	30	V-16
Pentachlorophenol	1.25	0.42	mg/Kg dry	2.08	ND	60.1	30-130	8.02	30	
Phenanthrene	1.94	0.21	mg/Kg dry	2.08	ND	93.7	40-140	7.60	30	
Phenol	1.57	0.42	mg/Kg dry	2.08	ND	75.9	30-130	15.8	30	
Pyrene	2.13	0.21	mg/Kg dry	2.08	0.161	94.8	40-140	13.5	30	
Pyridine	1.08	0.42	mg/Kg dry	2.08	ND	52.1	40-140	22.4	30	
1,2,4,5-Tetrachlorobenzene	1.57	0.42	mg/Kg dry	2.08	ND	75.7	40-140	16.4	30	
1,2,4-Trichlorobenzene	1.53	0.42	mg/Kg dry	2.08	ND	73.6	40-140	19.2	30	
2,4,5-Trichlorophenol	1.90	0.42	mg/Kg dry	2.08	ND	91.4	30-130	12.8	30	
2,4,6-Trichlorophenol	1.89	0.42	mg/Kg dry	2.08	ND	91.3	30-130	11.2	30	
Surrogate: 2-Fluorophenol	6.58		mg/Kg dry	8.30		79.3	30-130			
Surrogate: Phenol-d6	6.83		mg/Kg dry	8.30		82.3	30-130			
Surrogate: Nitrobenzene-d5	3.19		mg/Kg dry	4.15		76.7	30-130			
Surrogate: 2-Fluorobiphenyl	3.67		mg/Kg dry	4.15		88.5	30-130			
Surrogate: 2,4,6-Tribromophenol	8.38		mg/Kg dry	8.30		101	30-130			
Surrogate: p-Terphenyl-d14	4.40		mg/Kg dry	4.15		106	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131595 - SW-846 3510C

Blank (B131595-BLK1)

Prepared: 09/26/15 Analyzed: 10/01/15

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							V-05
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							L-04, V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							R-05
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							R-05
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							R-05, V-19
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131595 - SW-846 3510C

Blank (B131595-BLK1)

Prepared: 09/26/15 Analyzed: 10/01/15

2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							V-16
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							V-05
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							

Surrogate: 2-Fluorophenol	94.1		µg/L	200		47.1	15-110			
Surrogate: Phenol-d6	61.9		µg/L	200		31.0	15-110			
Surrogate: Nitrobenzene-d5	86.0		µg/L	100		86.0	30-130			
Surrogate: 2-Fluorobiphenyl	83.6		µg/L	100		83.6	30-130			
Surrogate: 2,4,6-Tribromophenol	169		µg/L	200		84.5	15-110			
Surrogate: p-Terphenyl-d14	89.3		µg/L	100		89.3	30-130			

LCS (B131595-BS1)

Prepared: 09/26/15 Analyzed: 10/01/15

Acenaphthene	95.8	5.0	µg/L	100		95.8	40-140			
Acenaphthylene	96.0	5.0	µg/L	100		96.0	40-140			
Acetophenone	99.4	10	µg/L	100		99.4	40-140			
Aniline	51.8	5.0	µg/L	100		51.8	40-140			V-05
Anthracene	95.6	5.0	µg/L	100		95.6	40-140			
Benzidine	ND	20	µg/L	100		*	40-140			L-04, V-05
Benzo(a)anthracene	100	5.0	µg/L	100		100	40-140			
Benzo(a)pyrene	104	5.0	µg/L	100		104	40-140			
Benzo(b)fluoranthene	105	5.0	µg/L	100		105	40-140			
Benzo(g,h,i)perylene	104	5.0	µg/L	100		104	40-140			
Benzo(k)fluoranthene	107	5.0	µg/L	100		107	40-140			
Benzoic Acid	10.2	10	µg/L	100		10.2	10-130			R-05 †
Bis(2-chloroethoxy)methane	108	10	µg/L	100		108	40-140			
Bis(2-chloroethyl)ether	111	10	µg/L	100		111	40-140			
Bis(2-chloroisopropyl)ether	101	10	µg/L	100		101	40-140			
Bis(2-Ethylhexyl)phthalate	105	10	µg/L	100		105	40-140			
4-Bromophenylphenylether	104	10	µg/L	100		104	40-140			
Butylbenzylphthalate	104	10	µg/L	100		104	40-140			
Carbazole	99.8	10	µg/L	100		99.8	40-140			
4-Chloroaniline	66.5	10	µg/L	100		66.5	40-140			
4-Chloro-3-methylphenol	96.8	10	µg/L	100		96.8	30-130			
2-Chloronaphthalene	87.2	10	µg/L	100		87.2	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131595 - SW-846 3510C										
LCS (B131595-BS1)										
					Prepared: 09/26/15 Analyzed: 10/01/15					
2-Chlorophenol	91.0	10	µg/L	100		91.0	30-130			
4-Chlorophenylphenylether	106	10	µg/L	100		106	40-140			
Chrysene	98.0	5.0	µg/L	100		98.0	40-140			
Dibenz(a,h)anthracene	106	5.0	µg/L	100		106	40-140			
Dibenzofuran	101	5.0	µg/L	100		101	40-140			
Di-n-butylphthalate	104	10	µg/L	100		104	40-140			
1,2-Dichlorobenzene	79.8	5.0	µg/L	100		79.8	40-140			
1,3-Dichlorobenzene	74.4	5.0	µg/L	100		74.4	40-140			
1,4-Dichlorobenzene	76.3	5.0	µg/L	100		76.3	40-140			
3,3-Dichlorobenzidine	83.6	10	µg/L	100		83.6	40-140			
2,4-Dichlorophenol	102	10	µg/L	100		102	30-130			
Diethylphthalate	107	10	µg/L	100		107	40-140			
2,4-Dimethylphenol	22.1	10	µg/L	100		22.1	* 30-130			L-07A
Dimethylphthalate	106	10	µg/L	100		106	40-140			
4,6-Dinitro-2-methylphenol	87.5	10	µg/L	100		87.5	30-130			
2,4-Dinitrophenol	29.0	10	µg/L	100		29.0	* 30-130			L-07A, V-19
2,4-Dinitrotoluene	106	10	µg/L	100		106	40-140			
2,6-Dinitrotoluene	110	10	µg/L	100		110	40-140			
Di-n-octylphthalate	114	10	µg/L	100		114	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	95.7	10	µg/L	100		95.7	40-140			
Fluoranthene	103	5.0	µg/L	100		103	40-140			
Fluorene	100	5.0	µg/L	100		100	40-140			
Hexachlorobenzene	101	10	µg/L	100		101	40-140			
Hexachlorobutadiene	77.0	10	µg/L	100		77.0	40-140			
Hexachlorocyclopentadiene	75.7	10	µg/L	100		75.7	30-140			†
Hexachloroethane	70.5	10	µg/L	100		70.5	40-140			
Indeno(1,2,3-cd)pyrene	106	5.0	µg/L	100		106	40-140			
Isophorone	110	10	µg/L	100		110	40-140			
1-Methylnaphthalene	89.4	5.0	µg/L	100		89.4	40-140			
2-Methylnaphthalene	96.3	5.0	µg/L	100		96.3	40-140			
2-Methylphenol	66.5	10	µg/L	100		66.5	30-130			
3/4-Methylphenol	69.3	10	µg/L	100		69.3	30-130			
Naphthalene	91.2	5.0	µg/L	100		91.2	40-140			
2-Nitroaniline	130	10	µg/L	100		130	40-140			
3-Nitroaniline	94.4	10	µg/L	100		94.4	40-140			
4-Nitroaniline	93.3	10	µg/L	100		93.3	40-140			
Nitrobenzene	103	10	µg/L	100		103	40-140			
2-Nitrophenol	113	10	µg/L	100		113	30-130			
4-Nitrophenol	43.1	10	µg/L	100		43.1	10-130			†
N-Nitrosodimethylamine	55.1	10	µg/L	100		55.1	40-140			
N-Nitrosodiphenylamine	111	10	µg/L	100		111	40-140			
N-Nitrosodi-n-propylamine	102	10	µg/L	100		102	40-140			
Pentachloronitrobenzene	106	10	µg/L	100		106	40-140			V-16
Pentachlorophenol	89.3	10	µg/L	100		89.3	30-130			
Phenanthrene	99.8	5.0	µg/L	100		99.8	40-140			
Phenol	37.5	10	µg/L	100		37.5	20-130			†
Pyrene	99.2	5.0	µg/L	100		99.2	40-140			
Pyridine	54.3	5.0	µg/L	100		54.3	10-140			†
1,2,4,5-Tetrachlorobenzene	89.0	10	µg/L	100		89.0	40-140			V-05
1,2,4-Trichlorobenzene	85.6	5.0	µg/L	100		85.6	40-140			
2,4,5-Trichlorophenol	104	10	µg/L	100		104	30-130			
2,4,6-Trichlorophenol	101	10	µg/L	100		101	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131595 - SW-846 3510C

LCS (B131595-BS1)

Prepared: 09/26/15 Analyzed: 10/01/15

Surrogate: 2-Fluorophenol	117		µg/L	200		58.7	15-110			
Surrogate: Phenol-d6	77.2		µg/L	200		38.6	15-110			
Surrogate: Nitrobenzene-d5	112		µg/L	100		112	30-130			
Surrogate: 2-Fluorobiphenyl	105		µg/L	100		105	30-130			
Surrogate: 2,4,6-Tribromophenol	208		µg/L	200		104	15-110			
Surrogate: p-Terphenyl-d14	110		µg/L	100		110	30-130			

LCS Dup (B131595-BSD1)

Prepared: 09/26/15 Analyzed: 10/01/15

Acenaphthene	94.3	5.0	µg/L	100		94.3	40-140	1.60	20	
Acenaphthylene	92.1	5.0	µg/L	100		92.1	40-140	4.18	20	
Acetophenone	98.8	10	µg/L	100		98.8	40-140	0.585	20	
Aniline	54.9	5.0	µg/L	100		54.9	40-140	5.93	50	V-05 ‡
Anthracene	89.6	5.0	µg/L	100		89.6	40-140	6.43	20	
Benzidine	ND	20	µg/L	100		*	40-140	NC	20	L-04, V-05
Benzo(a)anthracene	97.3	5.0	µg/L	100		97.3	40-140	3.01	20	
Benzo(a)pyrene	98.8	5.0	µg/L	100		98.8	40-140	4.82	20	
Benzo(b)fluoranthene	102	5.0	µg/L	100		102	40-140	2.48	20	
Benzo(g,h,i)perylene	101	5.0	µg/L	100		101	40-140	2.64	20	
Benzo(k)fluoranthene	103	5.0	µg/L	100		103	40-140	3.73	20	
Benzoic Acid	30.9	10	µg/L	100		30.9	10-130	101	* 50	R-05 † ‡
Bis(2-chloroethoxy)methane	105	10	µg/L	100		105	40-140	2.91	20	
Bis(2-chloroethyl)ether	107	10	µg/L	100		107	40-140	3.23	20	
Bis(2-chloroisopropyl)ether	100	10	µg/L	100		100	40-140	0.528	20	
Bis(2-Ethylhexyl)phthalate	102	10	µg/L	100		102	40-140	2.75	20	
4-Bromophenylphenylether	104	10	µg/L	100		104	40-140	0.193	20	
Butylbenzylphthalate	102	10	µg/L	100		102	40-140	2.10	20	
Carbazole	95.9	10	µg/L	100		95.9	40-140	4.03	20	
4-Chloroaniline	63.3	10	µg/L	100		63.3	40-140	4.94	20	
4-Chloro-3-methylphenol	96.6	10	µg/L	100		96.6	30-130	0.176	20	
2-Chloronaphthalene	83.8	10	µg/L	100		83.8	40-140	3.98	20	
2-Chlorophenol	90.5	10	µg/L	100		90.5	30-130	0.518	20	
4-Chlorophenylphenylether	103	10	µg/L	100		103	40-140	2.87	20	
Chrysene	95.1	5.0	µg/L	100		95.1	40-140	3.09	20	
Dibenz(a,h)anthracene	104	5.0	µg/L	100		104	40-140	2.40	20	
Dibenzofuran	96.2	5.0	µg/L	100		96.2	40-140	4.55	20	
Di-n-butylphthalate	99.3	10	µg/L	100		99.3	40-140	4.50	20	
1,2-Dichlorobenzene	79.7	5.0	µg/L	100		79.7	40-140	0.213	20	
1,3-Dichlorobenzene	72.5	5.0	µg/L	100		72.5	40-140	2.53	20	
1,4-Dichlorobenzene	73.7	5.0	µg/L	100		73.7	40-140	3.51	20	
3,3-Dichlorobenzidine	68.7	10	µg/L	100		68.7	40-140	19.6	20	
2,4-Dichlorophenol	102	10	µg/L	100		102	30-130	0.725	20	
Diethylphthalate	103	10	µg/L	100		103	40-140	3.71	20	
2,4-Dimethylphenol	32.1	10	µg/L	100		32.1	30-130	36.6	* 20	R-05
Dimethylphthalate	102	10	µg/L	100		102	40-140	3.65	50	‡
4,6-Dinitro-2-methylphenol	102	10	µg/L	100		102	30-130	15.0	50	‡
2,4-Dinitrophenol	107	10	µg/L	100		107	30-130	115	* 50	R-05, V-19 ‡
2,4-Dinitrotoluene	106	10	µg/L	100		106	40-140	0.132	20	
2,6-Dinitrotoluene	108	10	µg/L	100		108	40-140	1.79	20	
Di-n-octylphthalate	110	10	µg/L	100		110	40-140	3.35	20	
1,2-Diphenylhydrazine (as Azobenzene)	92.3	10	µg/L	100		92.3	40-140	3.63	20	
Fluoranthene	96.9	5.0	µg/L	100		96.9	40-140	5.60	20	
Fluorene	96.5	5.0	µg/L	100		96.5	40-140	3.89	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131595 - SW-846 3510C										
LCS Dup (B131595-BSD1)										
					Prepared: 09/26/15 Analyzed: 10/01/15					
Hexachlorobenzene	99.6	10	µg/L	100		99.6	40-140	1.88	20	
Hexachlorobutadiene	74.8	10	µg/L	100		74.8	40-140	2.88	20	
Hexachlorocyclopentadiene	71.1	10	µg/L	100		71.1	30-140	6.34	50	† ‡
Hexachloroethane	66.6	10	µg/L	100		66.6	40-140	5.75	50	‡
Indeno(1,2,3-cd)pyrene	101	5.0	µg/L	100		101	40-140	4.06	50	‡
Isophorone	108	10	µg/L	100		108	40-140	1.12	20	
1-Methylnaphthalene	87.5	5.0	µg/L	100		87.5	40-140	2.15	20	
2-Methylnaphthalene	95.4	5.0	µg/L	100		95.4	40-140	0.918	20	
2-Methylphenol	74.7	10	µg/L	100		74.7	30-130	11.6	20	
3/4-Methylphenol	72.8	10	µg/L	100		72.8	30-130	4.94	20	
Naphthalene	90.2	5.0	µg/L	100		90.2	40-140	1.04	20	
2-Nitroaniline	126	10	µg/L	100		126	40-140	3.23	20	
3-Nitroaniline	88.2	10	µg/L	100		88.2	40-140	6.75	20	
4-Nitroaniline	93.6	10	µg/L	100		93.6	40-140	0.342	20	
Nitrobenzene	102	10	µg/L	100		102	40-140	1.59	20	
2-Nitrophenol	113	10	µg/L	100		113	30-130	0.248	20	
4-Nitrophenol	49.9	10	µg/L	100		49.9	10-130	14.7	50	† ‡
N-Nitrosodimethylamine	53.8	10	µg/L	100		53.8	40-140	2.40	20	
N-Nitrosodiphenylamine	108	10	µg/L	100		108	40-140	2.07	20	
N-Nitrosodi-n-propylamine	100	10	µg/L	100		100	40-140	1.59	20	
Pentachloronitrobenzene	103	10	µg/L	100		103	40-140	2.48	20	V-16
Pentachlorophenol	105	10	µg/L	100		105	30-130	16.2	50	‡
Phenanthrene	96.1	5.0	µg/L	100		96.1	40-140	3.77	20	
Phenol	38.4	10	µg/L	100		38.4	20-130	2.48	20	†
Pyrene	96.9	5.0	µg/L	100		96.9	40-140	2.34	20	
Pyridine	49.1	5.0	µg/L	100		49.1	10-140	9.98	50	† ‡
1,2,4,5-Tetrachlorobenzene	86.4	10	µg/L	100		86.4	40-140	3.01	20	V-05
1,2,4-Trichlorobenzene	82.2	5.0	µg/L	100		82.2	40-140	4.05	20	
2,4,5-Trichlorophenol	100	10	µg/L	100		100	30-130	3.27	20	
2,4,6-Trichlorophenol	102	10	µg/L	100		102	30-130	0.727	50	‡
Surrogate: 2-Fluorophenol	114		µg/L	200		57.0	15-110			
Surrogate: Phenol-d6	75.9		µg/L	200		38.0	15-110			
Surrogate: Nitrobenzene-d5	111		µg/L	100		111	30-130			
Surrogate: 2-Fluorobiphenyl	102		µg/L	100		102	30-130			
Surrogate: 2,4,6-Tribromophenol	205		µg/L	200		102	15-110			
Surrogate: p-Terphenyl-d14	108		µg/L	100		108	30-130			

Batch B131648 - SW-846 3546

Blank (B131648-BLK1)										
					Prepared: 09/28/15 Analyzed: 09/29/15					
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzidine	ND	0.66	mg/Kg wet							V-04, V-05
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131648 - SW-846 3546

Blank (B131648-BLK1)

Prepared: 09/28/15 Analyzed: 09/29/15

Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131648 - SW-846 3546

Blank (B131648-BLK1)

Prepared: 09/28/15 Analyzed: 09/29/15

Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	5.93		mg/Kg wet	6.67		89.0	30-130			
Surrogate: Phenol-d6	5.65		mg/Kg wet	6.67		84.8	30-130			
Surrogate: Nitrobenzene-d5	2.53		mg/Kg wet	3.33		75.8	30-130			
Surrogate: 2-Fluorobiphenyl	3.23		mg/Kg wet	3.33		96.9	30-130			
Surrogate: 2,4,6-Tribromophenol	6.70		mg/Kg wet	6.67		101	30-130			
Surrogate: p-Terphenyl-d14	3.84		mg/Kg wet	3.33		115	30-130			

LCS (B131648-BS1)

Prepared: 09/28/15 Analyzed: 09/29/15

Acenaphthene	1.63	0.17	mg/Kg wet	1.67		98.0	40-140			
Acenaphthylene	1.55	0.17	mg/Kg wet	1.67		93.3	40-140			
Acetophenone	1.29	0.34	mg/Kg wet	1.67		77.5	40-140			
Aniline	0.902	0.34	mg/Kg wet	1.67		54.1	10-140			†
Anthracene	1.58	0.17	mg/Kg wet	1.67		94.9	40-140			
Benizidine	1.37	0.66	mg/Kg wet	1.67		82.2	40-140			V-04, V-05
Benzo(a)anthracene	1.65	0.17	mg/Kg wet	1.67		98.8	40-140			
Benzo(a)pyrene	1.65	0.17	mg/Kg wet	1.67		98.9	40-140			
Benzo(b)fluoranthene	1.55	0.17	mg/Kg wet	1.67		93.0	40-140			
Benzo(g,h,i)perylene	1.84	0.17	mg/Kg wet	1.67		110	40-140			
Benzo(k)fluoranthene	1.53	0.17	mg/Kg wet	1.67		91.9	40-140			
Benzoic Acid	1.07	1.0	mg/Kg wet	1.67		64.4	30-130			
Bis(2-chloroethoxy)methane	1.47	0.34	mg/Kg wet	1.67		88.4	40-140			
Bis(2-chloroethyl)ether	1.50	0.34	mg/Kg wet	1.67		90.2	40-140			
Bis(2-chloroisopropyl)ether	1.33	0.34	mg/Kg wet	1.67		80.0	40-140			
Bis(2-Ethylhexyl)phthalate	1.70	0.34	mg/Kg wet	1.67		102	40-140			
4-Bromophenylphenylether	1.69	0.34	mg/Kg wet	1.67		101	40-140			
Butylbenzylphthalate	1.75	0.34	mg/Kg wet	1.67		105	40-140			
Carbazole	1.55	0.17	mg/Kg wet	1.67		92.9	40-140			
4-Chloroaniline	0.920	0.66	mg/Kg wet	1.67		55.2	10-140			†
4-Chloro-3-methylphenol	1.56	0.66	mg/Kg wet	1.67		93.6	30-130			
2-Chloronaphthalene	1.40	0.34	mg/Kg wet	1.67		83.9	40-140			
2-Chlorophenol	1.51	0.34	mg/Kg wet	1.67		90.7	30-130			
4-Chlorophenylphenylether	1.65	0.34	mg/Kg wet	1.67		98.9	40-140			
Chrysene	1.56	0.17	mg/Kg wet	1.67		93.8	40-140			
Dibenz(a,h)anthracene	1.84	0.17	mg/Kg wet	1.67		110	40-140			
Dibenzofuran	1.60	0.34	mg/Kg wet	1.67		96.0	40-140			
Di-n-butylphthalate	1.54	0.34	mg/Kg wet	1.67		92.7	40-140			
1,2-Dichlorobenzene	1.37	0.34	mg/Kg wet	1.67		82.3	40-140			
1,3-Dichlorobenzene	1.30	0.34	mg/Kg wet	1.67		78.3	40-140			
1,4-Dichlorobenzene	1.33	0.34	mg/Kg wet	1.67		79.5	40-140			
3,3-Dichlorobenzidine	1.14	0.17	mg/Kg wet	1.67		68.4	20-140			†
2,4-Dichlorophenol	1.56	0.34	mg/Kg wet	1.67		93.8	30-130			
Diethylphthalate	1.65	0.34	mg/Kg wet	1.67		99.1	40-140			
2,4-Dimethylphenol	1.59	0.34	mg/Kg wet	1.67		95.2	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131648 - SW-846 3546										
LCS (B131648-BS1)										
					Prepared: 09/28/15 Analyzed: 09/29/15					
Dimethylphthalate	1.67	0.34	mg/Kg wet	1.67		100	40-140			
4,6-Dinitro-2-methylphenol	1.10	0.34	mg/Kg wet	1.67		66.2	30-130			
2,4-Dinitrophenol	0.616	0.66	mg/Kg wet	1.67		36.9	30-130			
2,4-Dinitrotoluene	1.66	0.34	mg/Kg wet	1.67		99.4	40-140			
2,6-Dinitrotoluene	1.76	0.34	mg/Kg wet	1.67		106	40-140			
Di-n-octylphthalate	1.62	0.34	mg/Kg wet	1.67		97.5	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.50	0.34	mg/Kg wet	1.67		89.7	40-140			
Fluoranthene	1.54	0.17	mg/Kg wet	1.67		92.2	40-140			
Fluorene	1.62	0.17	mg/Kg wet	1.67		97.0	40-140			
Hexachlorobenzene	1.54	0.34	mg/Kg wet	1.67		92.2	40-140			
Hexachlorobutadiene	1.42	0.34	mg/Kg wet	1.67		85.5	40-140			
Hexachlorocyclopentadiene	1.20	0.34	mg/Kg wet	1.67		71.9	40-140			
Hexachloroethane	1.34	0.34	mg/Kg wet	1.67		80.7	40-140			
Indeno(1,2,3-cd)pyrene	1.86	0.17	mg/Kg wet	1.67		112	40-140			
Isophorone	1.49	0.34	mg/Kg wet	1.67		89.6	40-140			
1-Methylnaphthalene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140			
2-Methylnaphthalene	1.48	0.17	mg/Kg wet	1.67		88.5	40-140			
2-Methylphenol	1.43	0.34	mg/Kg wet	1.67		86.0	30-130			
3/4-Methylphenol	1.40	0.34	mg/Kg wet	1.67		83.8	30-130			
Naphthalene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140			
2-Nitroaniline	1.55	0.34	mg/Kg wet	1.67		93.1	40-140			
3-Nitroaniline	1.45	0.34	mg/Kg wet	1.67		87.1	30-140			†
4-Nitroaniline	1.66	0.34	mg/Kg wet	1.67		99.6	40-140			
Nitrobenzene	1.38	0.34	mg/Kg wet	1.67		82.5	40-140			
2-Nitrophenol	1.57	0.34	mg/Kg wet	1.67		94.4	30-130			
4-Nitrophenol	1.56	0.66	mg/Kg wet	1.67		93.8	30-130			
N-Nitrosodimethylamine	1.33	0.34	mg/Kg wet	1.67		79.7	40-140			
N-Nitrosodiphenylamine	1.95	0.34	mg/Kg wet	1.67		117	40-140			
N-Nitrosodi-n-propylamine	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
Pentachloronitrobenzene	1.43	0.34	mg/Kg wet	1.67		85.9	40-140			V-16
Pentachlorophenol	1.26	0.34	mg/Kg wet	1.67		75.9	30-130			
Phenanthrene	1.62	0.17	mg/Kg wet	1.67		97.2	40-140			
Phenol	1.50	0.34	mg/Kg wet	1.67		90.1	30-130			
Pyrene	1.71	0.17	mg/Kg wet	1.67		103	40-140			
Pyridine	1.12	0.34	mg/Kg wet	1.67		67.3	30-140			†
1,2,4,5-Tetrachlorobenzene	1.48	0.34	mg/Kg wet	1.67		89.1	40-140			
1,2,4-Trichlorobenzene	1.47	0.34	mg/Kg wet	1.67		87.9	40-140			
2,4,5-Trichlorophenol	1.69	0.34	mg/Kg wet	1.67		101	30-130			
2,4,6-Trichlorophenol	1.72	0.34	mg/Kg wet	1.67		103	30-130			
Surrogate: 2-Fluorophenol	6.78		mg/Kg wet	6.67		102	30-130			
Surrogate: Phenol-d6	6.49		mg/Kg wet	6.67		97.4	30-130			
Surrogate: Nitrobenzene-d5	2.98		mg/Kg wet	3.33		89.6	30-130			
Surrogate: 2-Fluorobiphenyl	3.52		mg/Kg wet	3.33		105	30-130			
Surrogate: 2,4,6-Tribromophenol	7.65		mg/Kg wet	6.67		115	30-130			
Surrogate: p-Terphenyl-d14	3.90		mg/Kg wet	3.33		117	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131648 - SW-846 3546										
LCS Dup (B131648-BSD1)										
					Prepared: 09/28/15 Analyzed: 09/29/15					
Acenaphthene	1.51	0.17	mg/Kg wet	1.67		90.6	40-140	7.83	30	
Acenaphthylene	1.45	0.17	mg/Kg wet	1.67		86.7	40-140	7.29	30	
Acetophenone	1.19	0.34	mg/Kg wet	1.67		71.5	40-140	8.13	30	
Aniline	0.861	0.34	mg/Kg wet	1.67		51.6	10-140	4.73	50	† ‡
Anthracene	1.50	0.17	mg/Kg wet	1.67		90.0	40-140	5.26	30	
Benzdine	1.26	0.66	mg/Kg wet	1.67		75.7	40-140	8.26	30	V-04, V-05
Benzo(a)anthracene	1.56	0.17	mg/Kg wet	1.67		93.5	40-140	5.57	30	
Benzo(a)pyrene	1.56	0.17	mg/Kg wet	1.67		93.7	40-140	5.44	30	
Benzo(b)fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.5	40-140	3.88	30	
Benzo(g,h,i)perylene	1.68	0.17	mg/Kg wet	1.67		101	40-140	8.82	30	
Benzo(k)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.5	40-140	4.88	30	
Benzoic Acid	1.11	1.0	mg/Kg wet	1.67		66.5	30-130	3.21	50	‡
Bis(2-chloroethoxy)methane	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	11.3	30	
Bis(2-chloroethyl)ether	1.36	0.34	mg/Kg wet	1.67		81.4	40-140	10.2	30	
Bis(2-chloroisopropyl)ether	1.14	0.34	mg/Kg wet	1.67		68.4	40-140	15.6	30	
Bis(2-Ethylhexyl)phthalate	1.55	0.34	mg/Kg wet	1.67		92.9	40-140	9.14	30	
4-Bromophenylphenylether	1.60	0.34	mg/Kg wet	1.67		95.7	40-140	5.60	30	
Butylbenzylphthalate	1.60	0.34	mg/Kg wet	1.67		96.0	40-140	8.92	30	
Carbazole	1.45	0.17	mg/Kg wet	1.67		87.3	40-140	6.30	30	
4-Chloroaniline	0.869	0.66	mg/Kg wet	1.67		52.1	10-140	5.70	30	†
4-Chloro-3-methylphenol	1.42	0.66	mg/Kg wet	1.67		85.5	30-130	9.11	30	
2-Chloronaphthalene	1.33	0.34	mg/Kg wet	1.67		79.7	40-140	5.16	30	
2-Chlorophenol	1.45	0.34	mg/Kg wet	1.67		86.8	30-130	4.37	30	
4-Chlorophenylphenylether	1.56	0.34	mg/Kg wet	1.67		93.8	40-140	5.32	30	
Chrysene	1.47	0.17	mg/Kg wet	1.67		88.0	40-140	6.38	30	
Dibenz(a,h)anthracene	1.76	0.17	mg/Kg wet	1.67		106	40-140	4.24	30	
Dibenzofuran	1.49	0.34	mg/Kg wet	1.67		89.4	40-140	7.16	30	
Di-n-butylphthalate	1.44	0.34	mg/Kg wet	1.67		86.3	40-140	7.06	30	
1,2-Dichlorobenzene	1.27	0.34	mg/Kg wet	1.67		76.1	40-140	7.93	30	
1,3-Dichlorobenzene	1.20	0.34	mg/Kg wet	1.67		72.0	40-140	8.38	30	
1,4-Dichlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.1	40-140	8.36	30	
3,3-Dichlorobenzidine	1.12	0.17	mg/Kg wet	1.67		67.3	20-140	1.65	50	† ‡
2,4-Dichlorophenol	1.47	0.34	mg/Kg wet	1.67		88.2	30-130	6.18	30	
Diethylphthalate	1.53	0.34	mg/Kg wet	1.67		91.6	40-140	7.89	30	
2,4-Dimethylphenol	1.44	0.34	mg/Kg wet	1.67		86.7	30-130	9.30	30	
Dimethylphthalate	1.57	0.34	mg/Kg wet	1.67		94.4	40-140	5.76	30	
4,6-Dinitro-2-methylphenol	1.16	0.34	mg/Kg wet	1.67		69.3	30-130	4.58	30	
2,4-Dinitrophenol	0.670	0.66	mg/Kg wet	1.67		40.2	30-130	8.40	30	
2,4-Dinitrotoluene	1.56	0.34	mg/Kg wet	1.67		93.9	40-140	5.65	30	
2,6-Dinitrotoluene	1.63	0.34	mg/Kg wet	1.67		97.9	40-140	7.72	30	
Di-n-octylphthalate	1.51	0.34	mg/Kg wet	1.67		90.4	40-140	7.56	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.33	0.34	mg/Kg wet	1.67		80.0	40-140	11.5	30	
Fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.8	40-140	4.89	30	
Fluorene	1.51	0.17	mg/Kg wet	1.67		90.7	40-140	6.71	30	
Hexachlorobenzene	1.49	0.34	mg/Kg wet	1.67		89.4	40-140	3.04	30	
Hexachlorobutadiene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140	7.35	30	
Hexachlorocyclopentadiene	1.13	0.34	mg/Kg wet	1.67		67.8	40-140	5.87	30	
Hexachloroethane	1.21	0.34	mg/Kg wet	1.67		72.6	40-140	10.5	30	
Indeno(1,2,3-cd)pyrene	1.72	0.17	mg/Kg wet	1.67		103	40-140	8.00	30	
Isophorone	1.32	0.34	mg/Kg wet	1.67		79.3	40-140	12.2	30	
1-Methylnaphthalene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140	5.96	30	
2-Methylnaphthalene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140	5.36	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131648 - SW-846 3546										
LCS Dup (B131648-BSD1)										
					Prepared: 09/28/15 Analyzed: 09/29/15					
2-Methylphenol	1.34	0.34	mg/Kg wet	1.67		80.2	30-130	7.00	30	
3/4-Methylphenol	1.31	0.34	mg/Kg wet	1.67		78.8	30-130	6.20	30	
Naphthalene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140	9.76	30	
2-Nitroaniline	1.37	0.34	mg/Kg wet	1.67		82.2	40-140	12.5	30	
3-Nitroaniline	1.34	0.34	mg/Kg wet	1.67		80.4	30-140	8.00	30	†
4-Nitroaniline	1.55	0.34	mg/Kg wet	1.67		92.7	40-140	7.17	30	
Nitrobenzene	1.20	0.34	mg/Kg wet	1.67		72.1	40-140	13.4	30	
2-Nitrophenol	1.40	0.34	mg/Kg wet	1.67		84.1	30-130	11.6	30	
4-Nitrophenol	1.36	0.66	mg/Kg wet	1.67		81.8	30-130	13.6	50	‡
N-Nitrosodimethylamine	1.13	0.34	mg/Kg wet	1.67		68.0	40-140	15.8	30	
N-Nitrosodiphenylamine	1.87	0.34	mg/Kg wet	1.67		112	40-140	4.40	30	
N-Nitrosodi-n-propylamine	1.18	0.34	mg/Kg wet	1.67		71.0	40-140	11.1	30	
Pentachloronitrobenzene	1.43	0.34	mg/Kg wet	1.67		85.9	40-140	0.0699	30	V-16
Pentachlorophenol	1.24	0.34	mg/Kg wet	1.67		74.7	30-130	1.59	30	
Phenanthrene	1.53	0.17	mg/Kg wet	1.67		91.5	40-140	6.02	30	
Phenol	1.41	0.34	mg/Kg wet	1.67		84.3	30-130	6.63	30	
Pyrene	1.60	0.17	mg/Kg wet	1.67		95.8	40-140	7.09	30	
Pyridine	1.03	0.34	mg/Kg wet	1.67		61.8	30-140	8.52	30	†
1,2,4,5-Tetrachlorobenzene	1.37	0.34	mg/Kg wet	1.67		82.4	40-140	7.77	30	
1,2,4-Trichlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.1	40-140	9.28	30	
2,4,5-Trichlorophenol	1.57	0.34	mg/Kg wet	1.67		93.9	30-130	7.46	30	
2,4,6-Trichlorophenol	1.59	0.34	mg/Kg wet	1.67		95.2	30-130	7.89	30	
Surrogate: 2-Fluorophenol	6.06		mg/Kg wet	6.67		90.9	30-130			
Surrogate: Phenol-d6	5.89		mg/Kg wet	6.67		88.3	30-130			
Surrogate: Nitrobenzene-d5	2.60		mg/Kg wet	3.33		78.1	30-130			
Surrogate: 2-Fluorobiphenyl	3.24		mg/Kg wet	3.33		97.1	30-130			
Surrogate: 2,4,6-Tribromophenol	7.27		mg/Kg wet	6.67		109	30-130			
Surrogate: p-Terphenyl-d14	3.62		mg/Kg wet	3.33		109	30-130			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131514 - SW-846 7471										
Blank (B131514-BLK1)				Prepared: 09/25/15 Analyzed: 09/29/15						
Mercury	ND	0.025	mg/Kg wet							
LCS (B131514-BS1)				Prepared: 09/25/15 Analyzed: 09/29/15						
Mercury	6.78	0.78	mg/Kg wet	7.10		95.5	73.7-126.3			
LCS Dup (B131514-BSD1)				Prepared: 09/25/15 Analyzed: 09/29/15						
Mercury	6.08	0.78	mg/Kg wet	7.10		85.7	73.7-126.3	10.9	30	
Duplicate (B131514-DUP1)				Source: 1511054-15			Prepared: 09/25/15 Analyzed: 09/29/15			
Mercury	0.0579	0.030	mg/Kg dry		0.0486			17.5	35	
Matrix Spike (B131514-MS1)				Source: 1511054-15			Prepared: 09/25/15 Analyzed: 09/29/15			
Mercury	0.243	0.031	mg/Kg dry	0.206	0.0486	94.6	75-125			
Matrix Spike Dup (B131514-MSD1)				Source: 1511054-15			Prepared: 09/25/15 Analyzed: 09/29/15			
Mercury	0.249	0.031	mg/Kg dry	0.209	0.0486	95.6	75-125	2.23	35	
Batch B131515 - SW-846 7471										
Blank (B131515-BLK1)				Prepared: 09/25/15 Analyzed: 09/29/15						
Mercury	ND	0.025	mg/Kg wet							
LCS (B131515-BS1)				Prepared: 09/25/15 Analyzed: 09/29/15						
Mercury	7.42	0.78	mg/Kg wet	7.10		104	73.7-126.3			
LCS Dup (B131515-BSD1)				Prepared: 09/25/15 Analyzed: 09/29/15						
Mercury	3.97	0.78	mg/Kg wet	7.10		56.0 *	73.7-126.3	60.4 *	30	L-07A
Duplicate (B131515-DUP1)				Source: 1511054-22			Prepared: 09/25/15 Analyzed: 09/29/15			
Mercury	0.0762	0.029	mg/Kg dry		0.0759			0.397	35	
Matrix Spike (B131515-MS1)				Source: 1511054-22			Prepared: 09/25/15 Analyzed: 09/29/15			
Mercury	0.251	0.029	mg/Kg dry	0.191	0.0759	91.9	75-125			
Matrix Spike Dup (B131515-MSD1)				Source: 1511054-22			Prepared: 09/25/15 Analyzed: 09/29/15			
Mercury	0.272	0.029	mg/Kg dry	0.193	0.0759	101	75-125	7.86	35	
Batch B131516 - SW-846 3050B										
Blank (B131516-BLK1)				Prepared: 09/25/15 Analyzed: 09/30/15						
Aluminum	5.3	2.5	mg/Kg wet							B-07
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Calcium	ND	7.5	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Cobalt	ND	2.5	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Iron	ND	2.5	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Magnesium	ND	7.5	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Potassium	ND	100	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131516 - SW-846 3050B										
Blank (B131516-BLK1)										
Prepared: 09/25/15 Analyzed: 09/30/15										
Silver	ND	0.50	mg/Kg wet							
Sodium	ND	100	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B131516-BS1)										
Prepared: 09/25/15 Analyzed: 09/30/15										
Aluminum	5650	5.0	mg/Kg wet	7930		71.3	51.2-148.1			B
Arsenic	97.4	5.0	mg/Kg wet	98.5		98.9	77.8-122.1			
Barium	287	5.0	mg/Kg wet	308		93.3	82-117.4			
Beryllium	62.6	0.50	mg/Kg wet	66.0		94.9	82.3-117.7			
Cadmium	142	0.50	mg/Kg wet	146		97.0	81.9-118.2			
Calcium	5990	15	mg/Kg wet	6610		90.6	81.9-118.2			
Chromium	171	1.0	mg/Kg wet	182		94.0	78.7-120.6			
Cobalt	156	5.0	mg/Kg wet	162		96.5	83-116.7			
Copper	100	1.0	mg/Kg wet	106		94.6	80.4-119.6			
Iron	12900	5.0	mg/Kg wet	14400		89.4	46.8-153			
Lead	121	1.5	mg/Kg wet	130		93.0	82.4-117.8			
Magnesium	2330	15	mg/Kg wet	2640		88.2	75.5-124.2			
Manganese	400	1.0	mg/Kg wet	410		97.7	80.8-119.2			
Nickel	145	1.0	mg/Kg wet	149		97.0	82.2-117.8			
Potassium	2480	200	mg/Kg wet	2550		97.4	69.9-130.1			
Selenium	159	10	mg/Kg wet	154		103	77.1-122.3			
Silver	39.2	1.0	mg/Kg wet	40.9		95.8	74.3-125.4			
Sodium	2640	200	mg/Kg wet	2480		107	69.9-130.5			
Thallium	179	5.0	mg/Kg wet	175		102	78.2-121.6			
Vanadium	94.5	2.0	mg/Kg wet	96.7		97.7	64.8-135.2			
Zinc	184	2.0	mg/Kg wet	191		96.6	79.7-120.8			
LCS Dup (B131516-BSD1)										
Prepared: 09/25/15 Analyzed: 09/30/15										
Aluminum	5960	5.0	mg/Kg wet	7930		75.1	51.2-148.1	5.30	30	B
Arsenic	97.0	5.0	mg/Kg wet	98.5		98.4	77.8-122.1	0.433	30	
Barium	283	5.0	mg/Kg wet	308		91.8	82-117.4	1.60	30	
Beryllium	64.1	0.50	mg/Kg wet	66.0		97.2	82.3-117.7	2.42	30	
Cadmium	139	0.50	mg/Kg wet	146		94.9	81.9-118.2	2.22	30	
Calcium	6190	15	mg/Kg wet	6610		93.7	81.9-118.2	3.34	30	
Chromium	172	1.0	mg/Kg wet	182		94.8	78.7-120.6	0.806	30	
Cobalt	156	5.0	mg/Kg wet	162		96.1	83-116.7	0.405	30	
Copper	102	1.0	mg/Kg wet	106		95.8	80.4-119.6	1.30	30	
Iron	13200	5.0	mg/Kg wet	14400		91.7	46.8-153	2.54	30	
Lead	120	1.5	mg/Kg wet	130		92.6	82.4-117.8	0.371	30	
Magnesium	2410	15	mg/Kg wet	2640		91.4	75.5-124.2	3.65	30	
Manganese	398	1.0	mg/Kg wet	410		97.1	80.8-119.2	0.616	30	
Nickel	145	1.0	mg/Kg wet	149		97.0	82.2-117.8	0.0300	30	
Potassium	2520	200	mg/Kg wet	2550		98.7	69.9-130.1	1.33	30	
Selenium	163	10	mg/Kg wet	154		106	77.1-122.3	2.55	30	
Silver	39.1	1.0	mg/Kg wet	40.9		95.6	74.3-125.4	0.208	30	
Sodium	2540	200	mg/Kg wet	2480		103	69.9-130.5	3.87	30	
Thallium	171	5.0	mg/Kg wet	175		97.9	78.2-121.6	4.46	30	
Vanadium	95.8	2.0	mg/Kg wet	96.7		99.0	64.8-135.2	1.33	30	
Zinc	187	2.0	mg/Kg wet	191		97.9	79.7-120.8	1.35	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131516 - SW-846 3050B

Duplicate (B131516-DUP1)	Source: 1511054-15			Prepared: 09/25/15 Analyzed: 09/30/15						
Aluminum	12700	3.1	mg/Kg dry		13600			7.23	35	B
Arsenic	3.77	3.1	mg/Kg dry		4.25			12.2	35	
Barium	118	3.1	mg/Kg dry		116			1.51	35	
Beryllium	0.935	0.31	mg/Kg dry		0.949			1.46	35	
Cadmium	ND	0.31	mg/Kg dry		ND			NC	35	
Calcium	5550	9.3	mg/Kg dry		5980			7.51	35	
Chromium	17.0	0.62	mg/Kg dry		17.3			1.52	35	
Cobalt	7.69	3.1	mg/Kg dry		8.25			6.97	35	
Copper	20.5	0.62	mg/Kg dry		21.2			3.33	35	
Iron	22300	3.1	mg/Kg dry		21400			3.99	35	
Lead	23.3	0.93	mg/Kg dry		25.3			8.33	35	
Magnesium	3750	9.3	mg/Kg dry		3820			1.64	35	
Manganese	403	0.62	mg/Kg dry		380			5.94	35	
Nickel	14.0	0.62	mg/Kg dry		13.9			0.705	35	
Potassium	1430	120	mg/Kg dry		1400			2.48	35	
Selenium	ND	6.2	mg/Kg dry		3.98			NC	35	
Silver	1.36	0.62	mg/Kg dry		1.41			3.21	35	
Sodium	152	120	mg/Kg dry		148			2.54	35	
Thallium	5.97	3.1	mg/Kg dry		ND			NC	35	
Vanadium	30.5	1.2	mg/Kg dry		30.3			0.792	35	
Zinc	83.5	1.2	mg/Kg dry		87.7			4.82	35	

MRL Check (B131516-MRL1)

Prepared: 09/25/15 Analyzed: 09/30/15

Lead	0.736	0.75	mg/Kg wet	0.747		98.5	80-120			
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Matrix Spike (B131516-MS1)

Source: 1511054-15

Prepared: 09/25/15 Analyzed: 09/30/15

Aluminum	10900	3.0	mg/Kg dry	120	13600	-2310	*	75-125		B, MS-19
Arsenic	141	3.0	mg/Kg dry	120	4.25	114		75-125		
Barium	202	3.0	mg/Kg dry	120	116	71.3	*	75-125		MS-22
Beryllium	111	0.30	mg/Kg dry	120	0.949	91.1		75-125		
Cadmium	113	0.30	mg/Kg dry	120	0.275	93.6		75-125		
Calcium	90600	9.0	mg/Kg dry	120	5980	70300	*	75-125		MS-19
Chromium	121	0.60	mg/Kg dry	120	17.3	86.0		75-125		
Cobalt	110	3.0	mg/Kg dry	120	8.25	84.6		75-125		
Copper	124	0.60	mg/Kg dry	120	21.2	85.8		75-125		
Iron	16200	3.0	mg/Kg dry	120	21400	-4320	*	75-125		MS-19
Lead	133	0.90	mg/Kg dry	120	25.3	89.7		75-125		
Magnesium	3650	9.0	mg/Kg dry	120	3820	-142	*	75-125		MS-19
Manganese	419	0.60	mg/Kg dry	120	380	32.5	*	75-125		MS-22
Nickel	114	0.60	mg/Kg dry	120	13.9	83.4		75-125		
Potassium	2330	120	mg/Kg dry	1200	1400	77.9		75-125		
Selenium	93.1	6.0	mg/Kg dry	120	3.98	74.1	*	75-125		MS-22
Silver	108	0.60	mg/Kg dry	120	1.41	88.1		75-125		
Sodium	295	120	mg/Kg dry	120	148	122		75-125		
Thallium	120	3.0	mg/Kg dry	120	ND	99.8		75-125		
Vanadium	137	1.2	mg/Kg dry	120	30.3	88.8		75-125		
Zinc	190	1.2	mg/Kg dry	120	87.7	85.2		75-125		

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131516 - SW-846 3050B										
Matrix Spike Dup (B131516-MSD1)										
		Source: 1511054-15			Prepared: 09/25/15 Analyzed: 09/30/15					
Aluminum	13300	3.0	mg/Kg dry	122	13600	-274 *	75-125	20.3	35	B, MS-19
Arsenic	113	3.0	mg/Kg dry	122	4.25	89.1	75-125	22.4	35	
Barium	226	3.0	mg/Kg dry	122	116	90.1	75-125	11.1	35	
Beryllium	109	0.30	mg/Kg dry	122	0.949	88.4	75-125	1.94	35	
Cadmium	108	0.30	mg/Kg dry	122	0.275	88.8	75-125	4.09	35	
Calcium	7170	9.1	mg/Kg dry	122	5980	976 *	75-125	171 *	35	MS-19
Chromium	124	0.61	mg/Kg dry	122	17.3	87.7	75-125	2.62	35	
Cobalt	113	3.0	mg/Kg dry	122	8.25	86.1	75-125	2.67	35	
Copper	130	0.61	mg/Kg dry	122	21.2	89.1	75-125	4.04	35	
Iron	20400	3.0	mg/Kg dry	122	21400	-860 *	75-125	22.7	35	MS-19
Lead	127	0.91	mg/Kg dry	122	25.3	83.6	75-125	4.74	35	
Magnesium	3910	9.1	mg/Kg dry	122	3820	76.6	75-125	6.99	35	
Manganese	493	0.61	mg/Kg dry	122	380	92.9	75-125	16.2	35	MS-22
Nickel	119	0.61	mg/Kg dry	122	13.9	86.0	75-125	3.73	35	
Potassium	2490	120	mg/Kg dry	1220	1400	89.6	75-125	6.36	35	
Selenium	114	6.1	mg/Kg dry	122	3.98	90.0	75-125	19.8	35	
Silver	107	0.61	mg/Kg dry	122	1.41	86.7	75-125	0.555	35	
Sodium	263	120	mg/Kg dry	122	148	94.6	75-125	11.5	35	
Thallium	113	3.0	mg/Kg dry	122	ND	92.8	75-125	6.14	35	
Vanadium	140	1.2	mg/Kg dry	122	30.3	90.3	75-125	2.24	35	
Zinc	193	1.2	mg/Kg dry	122	87.7	86.2	75-125	1.28	35	

Batch B131517 - SW-846 3050B

Blank (B131517-BLK1)

Prepared: 09/25/15 Analyzed: 10/03/15

Aluminum	ND	2.5	mg/Kg wet							
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Calcium	ND	7.5	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Cobalt	ND	2.5	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Iron	ND	2.5	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Magnesium	ND	7.5	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Potassium	ND	99	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Sodium	ND	99	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	0.99	mg/Kg wet							
Zinc	ND	0.99	mg/Kg wet							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131517 - SW-846 3050B

LCS (B131517-BS1)

Prepared: 09/25/15 Analyzed: 10/03/15

Aluminum	8160	5.0	mg/Kg wet	7930		103	51.2-148.1			
Antimony	105	5.0	mg/Kg wet	105		100	0-210.3			
Arsenic	90.1	5.0	mg/Kg wet	98.5		91.5	77.8-122.1			
Barium	286	5.0	mg/Kg wet	308		92.9	82-117.4			
Beryllium	62.9	0.50	mg/Kg wet	66.0		95.3	82.3-117.7			
Cadmium	137	0.50	mg/Kg wet	146		94.1	81.9-118.2			
Calcium	6280	15	mg/Kg wet	6610		95.1	81.9-118.2			
Chromium	174	1.0	mg/Kg wet	182		95.4	78.7-120.6			
Cobalt	152	5.0	mg/Kg wet	162		93.7	83-116.7			
Copper	101	1.0	mg/Kg wet	106		95.3	80.4-119.6			
Iron	15700	5.0	mg/Kg wet	14400		109	46.8-153			
Lead	113	1.5	mg/Kg wet	130		87.0	82.4-117.8			
Magnesium	2730	15	mg/Kg wet	2640		103	75.5-124.2			
Manganese	391	1.0	mg/Kg wet	410		95.3	80.8-119.2			
Nickel	141	1.0	mg/Kg wet	149		94.7	82.2-117.8			
Potassium	2580	200	mg/Kg wet	2550		101	69.9-130.1			
Selenium	152	10	mg/Kg wet	154		98.5	77.1-122.3			
Silver	38.7	1.0	mg/Kg wet	40.9		94.7	74.3-125.4			
Sodium	2550	200	mg/Kg wet	2480		103	69.9-130.5			
Thallium	173	5.0	mg/Kg wet	175		99.1	78.2-121.6			
Vanadium	101	2.0	mg/Kg wet	96.7		105	64.8-135.2			
Zinc	183	2.0	mg/Kg wet	191		96.0	79.7-120.8			

LCS Dup (B131517-BSD1)

Prepared: 09/25/15 Analyzed: 10/03/15

Aluminum	8580	5.0	mg/Kg wet	7930		108	51.2-148.1	4.94	30	
Antimony	110	5.0	mg/Kg wet	105		105	0-210.3	4.50	30	
Arsenic	97.6	5.0	mg/Kg wet	98.5		99.0	77.8-122.1	7.94	30	
Barium	296	5.0	mg/Kg wet	308		96.1	82-117.4	3.35	30	
Beryllium	64.7	0.50	mg/Kg wet	66.0		98.1	82.3-117.7	2.86	30	
Cadmium	141	0.50	mg/Kg wet	146		96.3	81.9-118.2	2.29	30	
Calcium	6380	15	mg/Kg wet	6610		96.5	81.9-118.2	1.44	30	
Chromium	181	1.0	mg/Kg wet	182		99.7	78.7-120.6	4.39	30	
Cobalt	158	5.0	mg/Kg wet	162		97.5	83-116.7	3.94	30	
Copper	105	1.0	mg/Kg wet	106		99.3	80.4-119.6	4.11	30	
Iron	16700	5.0	mg/Kg wet	14400		116	46.8-153	5.97	30	
Lead	122	1.5	mg/Kg wet	130		94.0	82.4-117.8	7.74	30	
Magnesium	2850	15	mg/Kg wet	2640		108	75.5-124.2	4.52	30	
Manganese	403	1.0	mg/Kg wet	410		98.2	80.8-119.2	3.05	30	
Nickel	147	1.0	mg/Kg wet	149		98.7	82.2-117.8	4.15	30	
Potassium	2690	200	mg/Kg wet	2550		105	69.9-130.1	4.07	30	
Selenium	162	10	mg/Kg wet	154		105	77.1-122.3	6.67	30	
Silver	40.1	1.0	mg/Kg wet	40.9		98.1	74.3-125.4	3.55	30	
Sodium	2540	200	mg/Kg wet	2480		103	69.9-130.5	0.0445	30	
Thallium	181	5.0	mg/Kg wet	175		103	78.2-121.6	4.03	30	
Vanadium	105	2.0	mg/Kg wet	96.7		109	64.8-135.2	3.87	30	
Zinc	191	2.0	mg/Kg wet	191		100	79.7-120.8	4.10	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131517 - SW-846 3050B

Duplicate (B131517-DUP1)	Source: 1511054-22			Prepared: 09/25/15 Analyzed: 10/03/15						
Aluminum	6860	2.8	mg/Kg dry		9150			28.6	35	
Antimony	ND	2.8	mg/Kg dry		ND			NC	35	
Arsenic	4.45	2.8	mg/Kg dry		16.6			116 *	35	R-02
Barium	58.8	2.8	mg/Kg dry		83.4			34.6	35	
Beryllium	0.596	0.28	mg/Kg dry		0.523			13.0	35	
Cadmium	ND	0.28	mg/Kg dry		ND			NC	35	
Calcium	29600	84	mg/Kg dry		76200			88.1 *	35	R-02
Chromium	9.62	0.56	mg/Kg dry		12.4			25.4	35	
Cobalt	4.44	2.8	mg/Kg dry		5.56			22.4	35	
Copper	13.0	0.56	mg/Kg dry		11.2			14.9	35	
Iron	14500	2.8	mg/Kg dry		16900			15.5	35	
Lead	119	0.84	mg/Kg dry		192			47.0 *	35	R-02
Magnesium	3860	8.4	mg/Kg dry		5700			38.6 *	35	R-02
Manganese	223	0.56	mg/Kg dry		343			42.5 *	35	R-02
Nickel	7.00	0.56	mg/Kg dry		9.49			30.2	35	
Potassium	1600	110	mg/Kg dry		2060			25.0	35	
Selenium	ND	5.6	mg/Kg dry		ND			NC	35	
Silver	1.36	0.56	mg/Kg dry		0.938			36.5 *	35	R-04
Sodium	299	110	mg/Kg dry		228			26.6	35	
Thallium	6.10	2.8	mg/Kg dry		ND			NC	35	
Vanadium	17.5	1.1	mg/Kg dry		21.6			21.4	35	
Zinc	56.2	1.1	mg/Kg dry		68.5			19.8	35	

MRL Check (B131517-MRL1)

Prepared: 09/25/15 Analyzed: 09/30/15

Lead	1.32	0.74	mg/Kg wet	1.49		88.7	80-120			
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Matrix Spike (B131517-MS1)

Source: 1511054-22

Prepared: 09/25/15 Analyzed: 10/03/15

Aluminum	8710	2.7	mg/Kg dry	220	9150	-198 *	75-125			MS-19
Antimony	99.0	2.7	mg/Kg dry	220	ND	45.1 *	75-125			MS-07A
Arsenic	212	2.7	mg/Kg dry	220	16.6	89.0	75-125			
Barium	272	2.7	mg/Kg dry	220	83.4	85.9	75-125			
Beryllium	205	0.27	mg/Kg dry	220	0.523	92.9	75-125			
Cadmium	200	0.27	mg/Kg dry	220	0.192	90.9	75-125			
Calcium	32600	82	mg/Kg dry	220	76200	-19800 *	75-125			MS-19
Chromium	208	0.55	mg/Kg dry	220	12.4	88.9	75-125			
Cobalt	193	2.7	mg/Kg dry	220	5.56	85.3	75-125			
Copper	214	0.55	mg/Kg dry	220	11.2	92.5	75-125			
Iron	16600	2.7	mg/Kg dry	220	16900	-133 *	75-125			MS-19
Lead	336	0.82	mg/Kg dry	220	192	65.5 *	75-125			MS-22
Magnesium	4990	8.2	mg/Kg dry	220	5700	-326 *	75-125			MS-19
Manganese	467	0.55	mg/Kg dry	220	343	56.3 *	75-125			MS-07A
Nickel	196	0.55	mg/Kg dry	220	9.49	85.1	75-125			
Potassium	4160	110	mg/Kg dry	2200	2060	95.7	75-125			
Selenium	204	5.5	mg/Kg dry	220	ND	92.9	75-125			
Silver	150	0.55	mg/Kg dry	220	0.938	67.8 *	75-125			MS-07A
Sodium	409	110	mg/Kg dry	220	228	82.2	75-125			
Thallium	208	2.7	mg/Kg dry	220	ND	94.7	75-125			
Vanadium	226	1.1	mg/Kg dry	220	21.6	93.1	75-125			
Zinc	261	1.1	mg/Kg dry	220	68.5	87.6	75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131517 - SW-846 3050B

Matrix Spike Dup (B131517-MSD1)

Source: 1511054-22

Prepared: 09/25/15 Analyzed: 10/03/15

Aluminum	8610	2.8	mg/Kg dry	226	9150	-236 *	75-125	1.13	35	MS-19
Antimony	111	2.8	mg/Kg dry	226	ND	49.3 *	75-125	11.8	35	MS-07A
Arsenic	221	2.8	mg/Kg dry	226	16.6	90.3	75-125	3.97	35	
Barium	281	2.8	mg/Kg dry	226	83.4	87.6	75-125	3.39	35	
Beryllium	204	0.28	mg/Kg dry	226	0.523	90.2	75-125	0.127	35	
Cadmium	207	0.28	mg/Kg dry	226	0.192	91.2	75-125	3.23	35	
Calcium	42600	85	mg/Kg dry	226	76200	-14900 *	75-125	26.5	35	MS-19
Chromium	212	0.57	mg/Kg dry	226	12.4	88.5	75-125	2.22	35	
Cobalt	199	2.8	mg/Kg dry	226	5.56	85.4	75-125	2.81	35	
Copper	218	0.57	mg/Kg dry	226	11.2	91.5	75-125	1.63	35	
Iron	15800	2.8	mg/Kg dry	226	16900	-465 *	75-125	4.68	35	MS-19
Lead	384	0.85	mg/Kg dry	226	192	84.5	75-125	13.1	35	
Magnesium	4720	8.5	mg/Kg dry	226	5700	-433 *	75-125	5.46	35	MS-19
Manganese	505	0.57	mg/Kg dry	226	343	71.7 *	75-125	7.91	35	MS-07A
Nickel	202	0.57	mg/Kg dry	226	9.49	84.9	75-125	2.53	35	
Potassium	4160	110	mg/Kg dry	2260	2060	93.0	75-125	0.0350	35	
Selenium	211	5.7	mg/Kg dry	226	ND	93.5	75-125	3.47	35	
Silver	165	0.57	mg/Kg dry	226	0.938	72.4 *	75-125	9.39	35	MS-07A
Sodium	417	110	mg/Kg dry	226	228	83.4	75-125	1.91	35	
Thallium	214	2.8	mg/Kg dry	226	ND	94.7	75-125	2.91	35	
Vanadium	231	1.1	mg/Kg dry	226	21.6	92.7	75-125	2.24	35	
Zinc	269	1.1	mg/Kg dry	226	68.5	88.7	75-125	3.00	35	

Batch B131550 - SW-846 7470A Prep

Blank (B131550-BLK1)

Prepared: 09/25/15 Analyzed: 09/28/15

Mercury	ND	0.00010	mg/L							
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LCS (B131550-BS1)

Prepared: 09/25/15 Analyzed: 09/28/15

Mercury	0.00155	0.00010	mg/L	0.00200		77.6 *	80-120			L-07
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LCS Dup (B131550-BSD1)

Prepared: 09/25/15 Analyzed: 09/28/15

Mercury	0.00160	0.00010	mg/L	0.00200		80.1	80-120	3.23	20	
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Batch B131680 - SW-846 3005A

Blank (B131680-BLK1)

Prepared: 09/28/15 Analyzed: 10/01/15

Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.15	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.050	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.15	mg/L							
Manganese	0.00036	0.0	mg/L							B-07
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131680 - SW-846 3005A										
Blank (B131680-BLK1)										
Prepared: 09/28/15 Analyzed: 10/01/15										
Silver	ND	0.0050	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.020	mg/L							
LCS (B131680-BS1)										
Prepared: 09/28/15 Analyzed: 10/01/15										
Silver	0.482	0.0050	mg/L	0.500		96.3	80-120			
LCS (B131680-BS2)										
Prepared: 09/28/15 Analyzed: 10/01/15										
Aluminum	2.12	0.050	mg/L	2.00		106	80-120			
Antimony	2.05	0.050	mg/L	2.00		102	80-120			
Arsenic	2.07	0.010	mg/L	2.00		103	80-120			
Barium	2.07	0.050	mg/L	2.00		103	80-120			
Beryllium	2.14	0.0040	mg/L	2.00		107	80-120			
Cadmium	2.11	0.0040	mg/L	2.00		106	80-120			
Calcium	1.92	0.15	mg/L	2.00		96.0	80-120			
Chromium	2.04	0.010	mg/L	2.00		102	80-120			
Cobalt	2.05	0.050	mg/L	2.00		103	80-120			
Copper	2.05	0.010	mg/L	2.00		103	80-120			
Iron	2.23	0.050	mg/L	2.00		111	80-120			
Lead	2.01	0.010	mg/L	2.00		100	80-120			
Magnesium	2.10	0.15	mg/L	2.00		105	80-120			
Manganese	2.09	0.0	mg/L	2.00		104	80-120			B
Nickel	2.03	0.010	mg/L	2.00		102	80-120			
Potassium	20.8	2.0	mg/L	20.0		104	80-120			
Selenium	2.07	0.050	mg/L	2.00		103	80-120			
Sodium	2.18	2.0	mg/L	2.00		109	80-120			
Thallium	1.95	0.050	mg/L	2.00		97.3	80-120			
Vanadium	2.02	0.010	mg/L	2.00		101	80-120			
Zinc	2.05	0.020	mg/L	2.00		102	80-120			
LCS Dup (B131680-BSD1)										
Prepared: 09/28/15 Analyzed: 10/01/15										
Silver	0.492	0.0050	mg/L	0.500		98.4	80-120	2.15	20	
LCS Dup (B131680-BSD2)										
Prepared: 09/28/15 Analyzed: 10/01/15										
Aluminum	2.14	0.050	mg/L	2.00		107	80-120	1.09	20	
Antimony	2.07	0.050	mg/L	2.00		104	80-120	1.00	20	
Arsenic	2.08	0.010	mg/L	2.00		104	80-120	0.738	20	
Barium	2.11	0.050	mg/L	2.00		105	80-120	2.00	20	
Beryllium	2.17	0.0040	mg/L	2.00		108	80-120	1.11	20	
Cadmium	2.15	0.0040	mg/L	2.00		108	80-120	1.91	20	
Calcium	1.91	0.15	mg/L	2.00		95.3	80-120	0.756	20	
Chromium	2.08	0.010	mg/L	2.00		104	80-120	1.73	20	
Cobalt	2.10	0.050	mg/L	2.00		105	80-120	2.20	20	
Copper	2.10	0.010	mg/L	2.00		105	80-120	2.10	20	
Iron	2.10	0.050	mg/L	2.00		105	80-120	5.73	20	
Lead	2.04	0.010	mg/L	2.00		102	80-120	1.32	20	
Magnesium	2.12	0.15	mg/L	2.00		106	80-120	1.01	20	
Manganese	2.11	0.0	mg/L	2.00		105	80-120	1.06	20	B
Nickel	2.07	0.010	mg/L	2.00		103	80-120	1.71	20	
Potassium	21.0	2.0	mg/L	20.0		105	80-120	0.930	20	
Selenium	2.08	0.050	mg/L	2.00		104	80-120	0.537	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131680 - SW-846 3005A

LCS Dup (B131680-BSD2)

Prepared: 09/28/15 Analyzed: 10/01/15

Sodium	2.18	2.0	mg/L	2.00		109	80-120	0.103	20	
Thallium	1.99	0.050	mg/L	2.00		99.5	80-120	2.20	20	
Vanadium	2.06	0.010	mg/L	2.00		103	80-120	2.00	20	
Zinc	2.08	0.020	mg/L	2.00		104	80-120	1.76	20	

Duplicate (B131680-DUP1)

Source: 1511054-25

Prepared: 09/28/15 Analyzed: 10/01/15

Aluminum	ND	0.050	mg/L		ND			NC	20	
Antimony	ND	0.050	mg/L		ND			NC	20	
Arsenic	ND	0.010	mg/L		ND			NC	20	
Barium	ND	0.050	mg/L		ND			NC	20	
Beryllium	ND	0.0040	mg/L		ND			NC	20	
Cadmium	ND	0.0040	mg/L		ND			NC	20	
Calcium	0.177	0.15	mg/L		0.181			2.03	20	
Chromium	ND	0.010	mg/L		ND			NC	20	
Cobalt	ND	0.050	mg/L		ND			NC	20	
Copper	0.0203	0.010	mg/L		0.0186			8.75	20	
Iron	0.245	0.050	mg/L		0.247			0.486	20	
Lead	ND	0.010	mg/L		ND			NC	20	
Magnesium	ND	0.15	mg/L		ND			NC	20	
Manganese	0.0108	0.0	mg/L		0.0106			2.17	20	B, B-07
Nickel	ND	0.010	mg/L		ND			NC	20	
Potassium	ND	2.0	mg/L		ND			NC	20	
Selenium	ND	0.050	mg/L		ND			NC	20	
Silver	ND	0.0050	mg/L		ND			NC	20	
Sodium	ND	2.0	mg/L		ND			NC	20	
Thallium	ND	0.050	mg/L		ND			NC	20	
Vanadium	ND	0.010	mg/L		ND			NC	20	
Zinc	ND	0.020	mg/L		ND			NC	20	

Matrix Spike (B131680-MS1)

Source: 1511054-25

Prepared: 09/28/15 Analyzed: 10/01/15

Aluminum	0.556	0.050	mg/L	0.500	ND	111	75-125			
Antimony	0.533	0.050	mg/L	0.500	ND	107	75-125			
Arsenic	0.518	0.010	mg/L	0.500	ND	104	75-125			
Barium	0.537	0.050	mg/L	0.500	ND	107	75-125			
Beryllium	0.547	0.0040	mg/L	0.500	ND	109	75-125			
Cadmium	0.541	0.0040	mg/L	0.500	ND	108	75-125			
Chromium	0.526	0.010	mg/L	0.500	0.00157	105	75-125			
Cobalt	0.541	0.050	mg/L	0.500	0.00858	106	75-125			
Copper	0.558	0.010	mg/L	0.500	0.0186	108	75-125			
Iron	0.817	0.050	mg/L	0.500	0.247	114	75-125			
Lead	0.509	0.010	mg/L	0.500	ND	102	75-125			
Magnesium	0.576	0.15	mg/L	0.500	0.0384	107	75-125			
Manganese	0.548	0.0	mg/L	0.500	0.0106	107	75-125			B
Nickel	0.525	0.010	mg/L	0.500	ND	105	75-125			
Potassium	5.32	2.0	mg/L	5.00	ND	106	75-125			
Selenium	0.512	0.050	mg/L	0.500	ND	102	75-125			
Silver	0.502	0.0050	mg/L	0.500	ND	100	75-125			
Sodium	1.09	2.0	mg/L	0.500	0.530	113	75-125			
Thallium	0.494	0.050	mg/L	0.500	ND	98.8	75-125			
Vanadium	0.525	0.010	mg/L	0.500	ND	105	75-125			
Zinc	0.544	0.020	mg/L	0.500	ND	109	75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B131680 - SW-846 3005A

Matrix Spike (B131680-MS2)	Source: 15I1054-25			Prepared: 09/28/15 Analyzed: 10/01/15						
Aluminum	2.15	0.050	mg/L	2.00	ND	108	75-125			
Antimony	2.10	0.050	mg/L	2.00	ND	105	75-125			
Arsenic	2.10	0.010	mg/L	2.00	ND	105	75-125			
Barium	2.11	0.050	mg/L	2.00	ND	106	75-125			
Beryllium	2.16	0.0040	mg/L	2.00	ND	108	75-125			
Cadmium	2.15	0.0040	mg/L	2.00	ND	108	75-125			
Calcium	2.04	0.15	mg/L	2.00	0.181	93.2	75-125			
Chromium	2.08	0.010	mg/L	2.00	0.00157	104	75-125			
Cobalt	2.11	0.050	mg/L	2.00	0.00858	105	75-125			
Copper	2.11	0.010	mg/L	2.00	0.0186	104	75-125			
Iron	2.34	0.050	mg/L	2.00	0.247	104	75-125			
Lead	2.04	0.010	mg/L	2.00	ND	102	75-125			
Magnesium	2.14	0.15	mg/L	2.00	0.0384	105	75-125			
Manganese	2.11	0.0	mg/L	2.00	0.0106	105	75-125			B
Nickel	2.07	0.010	mg/L	2.00	ND	103	75-125			
Potassium	21.0	2.0	mg/L	20.0	ND	105	75-125			
Selenium	2.09	0.050	mg/L	2.00	ND	104	75-125			
Silver	1.98	0.0050	mg/L	2.00	ND	99.2	75-125			
Sodium	2.65	2.0	mg/L	2.00	0.530	106	75-125			
Thallium	1.98	0.050	mg/L	2.00	ND	99.2	75-125			
Vanadium	2.07	0.010	mg/L	2.00	ND	103	75-125			
Zinc	2.08	0.020	mg/L	2.00	ND	104	75-125			

Batch B132301 - SW-846 3050B

Blank (B132301-BLK1)	Prepared: 10/06/15 Analyzed: 10/07/15									
Antimony	ND	2.4	mg/Kg wet							
LCS (B132301-BS1)	Prepared: 10/06/15 Analyzed: 10/07/15									
Antimony	59.4	4.5	mg/Kg wet	105		56.6	0-210.3			
LCS Dup (B132301-BSD1)	Prepared: 10/06/15 Analyzed: 10/07/15									
Antimony	64.4	5.0	mg/Kg wet	105		61.3	0-210.3	8.01	30	
Duplicate (B132301-DUP1)	Prepared: 10/06/15 Analyzed: 10/07/15									
Antimony	ND	3.1	mg/Kg dry			3.23		NC	35	
Matrix Spike (B132301-MS1)	Prepared: 10/06/15 Analyzed: 10/07/15									
Antimony	7.32	2.9	mg/Kg dry	29.3	3.23	14.0	* 75-125			MS-07
Matrix Spike Dup (B132301-MSD1)	Prepared: 10/06/15 Analyzed: 10/07/15									
Antimony	6.90	2.9	mg/Kg dry	29.0	3.23	12.7	* 75-125	5.88	35	MS-07

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B131473 - % Solids										
Duplicate (B131473-DUP4)		Source: 1511054-01		Prepared: 09/24/15 Analyzed: 09/25/15						
% Solids	83.0		% Wt		83.7			0.840	20	
Duplicate (B131473-DUP5)		Source: 1511054-15		Prepared: 09/24/15 Analyzed: 09/25/15						
% Solids	80.6		% Wt		80.3			0.373	20	
Duplicate (B131473-DUP6)		Source: 1511054-22		Prepared: 09/24/15 Analyzed: 09/25/15						
% Solids	83.7		% Wt		86.0			2.71	20	

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
No results have been blank subtracted unless specified in the case narrative section.
- B Analyte is found in the associated blank as well as in the sample.
 - B-07 Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
 - J Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
 - L-02 Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
 - L-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
 - L-06 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.
 - L-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - L-07A Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
 - MS-07 Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
 - MS-07A Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
 - MS-09 Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
 - MS-19 Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
 - MS-22 Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
 - MS-24 Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
 - PR-03 Sample preserved in the laboratory, not in the field as required by the method.
 - PR-15 According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.
 - R-02 Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
 - R-04 Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).
 - R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
 - R-06 Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
 - RL-12 Elevated reporting limit due to matrix interference.
 - S-07 One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
 - S-19 Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.
 - V-04 Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
 - V-05 Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
 - V-16 Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
 - V-19 Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
No results have been blank subtracted unless specified in the case narrative section.
- V-20 Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C in Soil</i>	
Aluminum	CT,NH,NY,ME,VA,NC,NJ
Antimony	CT,NH,NY,NC,ME,VA,NJ
Arsenic	CT,NH,NY,ME,NC,VA,NJ
Barium	CT,NH,NY,ME,NC,VA,NJ
Beryllium	CT,NH,NY,ME,NC,VA,NJ
Cadmium	CT,NH,NY,ME,NC,VA,NJ
Calcium	CT,NH,NY,ME,NC,VA,NJ
Chromium	CT,NH,NY,ME,NC,VA,NJ
Cobalt	CT,NH,NY,ME,NC,VA,NJ
Copper	CT,NH,NY,ME,NC,VA,NJ
Iron	CT,NH,NY,ME,NC,VA,NJ
Lead	CT,NH,NY,AIHA,ME,NC,VA,NJ
Magnesium	CT,NH,NY,ME,NC,VA,NJ
Manganese	CT,NH,NY,ME,NC,VA,NJ
Nickel	CT,NH,NY,ME,NC,VA,NJ
Potassium	CT,NH,NY,ME,NC,VA,NJ
Selenium	CT,NH,NY,ME,NC,VA,NJ
Silver	CT,NH,NY,ME,NC,VA,NJ
Sodium	CT,NH,NY,ME,NC,VA,NJ
Thallium	CT,NH,NY,ME,NC,VA,NJ
Vanadium	CT,NH,NY,ME,NC,VA,NJ
Zinc	CT,NH,NY,ME,NC,VA,NJ
<i>SW-846 6010C in Water</i>	
Aluminum	CT,NH,NY,ME,VA,NC,NJ
Antimony	CT,NH,NY,ME,NC,VA,NJ
Arsenic	CT,NH,NY,ME,NC,VA,RI
Barium	CT,NH,NY,ME,NC,VA,NJ
Beryllium	CT,NH,NY,ME,NC,VA,NJ
Cadmium	CT,NH,NY,ME,NC,VA,NJ
Calcium	CT,NH,NY,ME,NC,VA,NJ
Chromium	CT,NH,NY,ME,NC,VA,NJ
Cobalt	CT,NH,NY,ME,NC,VA,NJ
Copper	CT,NH,NY,ME,NC,VA,NJ
Iron	CT,NH,NY,ME,NC,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Magnesium	CT,NH,NY,ME,NC,VA,NJ
Manganese	CT,NH,NY,ME,NC,VA,NJ
Nickel	CT,NH,NY,ME,NC,VA,NJ
Potassium	CT,NH,NY,ME,NC,VA,NJ
Selenium	CT,NH,NY,ME,NC,VA,NJ
Silver	CT,NH,NY,ME,NC,VA,NJ
Sodium	CT,NH,NY,ME,NC,VA,NJ
Thallium	CT,NH,NY,NC,VA,NJ
Vanadium	CT,NH,NY,ME,NC,VA,NJ
Zinc	CT,NH,NY,ME,NC,VA,NJ

SW-846 7470A in Water

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA,NJ
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA,NJ
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME,VA,NJ
Acrylonitrile	CT,NH,NY,ME,VA,NJ
Benzene	CT,NH,NY,ME,VA,NJ
Bromobenzene	NH,NY,ME,VA,NJ
Bromochloromethane	NH,NY,ME,VA,NJ
Bromodichloromethane	CT,NH,NY,ME,VA,NJ
Bromoform	CT,NH,NY,ME,VA,NJ
Bromomethane	CT,NH,NY,ME,VA,NJ
2-Butanone (MEK)	CT,NH,NY,ME,VA,NJ
n-Butylbenzene	CT,NH,NY,ME,VA,NJ
sec-Butylbenzene	CT,NH,NY,ME,VA,NJ
tert-Butylbenzene	CT,NH,NY,ME,VA,NJ
Carbon Disulfide	CT,NH,NY,ME,VA,NJ
Carbon Tetrachloride	CT,NH,NY,ME,VA,NJ
Chlorobenzene	CT,NH,NY,ME,VA,NJ
Chlorodibromomethane	CT,NH,NY,ME,VA,NJ
Chloroethane	CT,NH,NY,ME,VA,NJ
Chloroform	CT,NH,NY,ME,VA,NJ
Chloromethane	CT,NH,NY,ME,VA,NJ
2-Chlorotoluene	CT,NH,NY,ME,VA,NJ
4-Chlorotoluene	CT,NH,NY,ME,VA,NJ
Dibromomethane	NH,NY,ME,VA,NJ
1,2-Dichlorobenzene	CT,NH,NY,ME,VA,NJ
1,3-Dichlorobenzene	CT,NH,NY,ME,VA,NJ
1,4-Dichlorobenzene	CT,NH,NY,ME,VA,NJ
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA,NJ
1,1-Dichloroethane	CT,NH,NY,ME,VA,NJ
1,2-Dichloroethane	CT,NH,NY,ME,VA,NJ
1,1-Dichloroethylene	CT,NH,NY,ME,VA,NJ
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA,NJ
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA,NJ
1,2-Dichloropropane	CT,NH,NY,ME,VA,NJ
1,3-Dichloropropane	NH,NY,ME,VA,NJ
2,2-Dichloropropane	NH,NY,ME,VA,NJ
1,1-Dichloropropene	NH,NY,ME,VA,NJ
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA,NJ
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA,NJ
1,4-Dioxane	NJ
Ethylbenzene	CT,NH,NY,ME,VA,NJ
Hexachlorobutadiene	NH,NY,ME,VA,NJ
2-Hexanone (MBK)	CT,NH,NY,ME,VA,NJ
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
p-Isopropyltoluene (p-Cymene)	NH,NY,NJ
Methyl tert-Butyl Ether (MTBE)	NY,VA,NJ
Methylene Chloride	CT,NH,NY,ME,VA,NJ
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA,NJ
Naphthalene	NH,NY,ME,VA,NJ
n-Propylbenzene	NH,NY,NJ
Styrene	CT,NH,NY,ME,VA,NJ
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA,NJ
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA,NJ
Tetrachloroethylene	CT,NH,NY,ME,VA,NJ
Toluene	CT,NH,NY,ME,VA,NJ
1,2,3-Trichlorobenzene	ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA,NJ
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,VA,NJ
1,1,2-Trichloroethane	CT,NH,NY,ME,VA,NJ
Trichloroethylene	CT,NH,NY,ME,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA,NJ
1,2,3-Trichloropropane	NH,NY,ME,VA,NJ
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA,NJ
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA,NJ
Vinyl Chloride	CT,NH,NY,ME,VA,NJ
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
SW-846 8260C in Water	
Acetone	CT,NY,ME,NH,VA,NJ
Acrylonitrile	CT,NY,ME,NH,VA,NJ
tert-Amyl Methyl Ether (TAME)	NY,ME,NH,VA,NJ
Benzene	CT,NY,ME,NH,VA,NJ
Bromochloromethane	NY,ME,NH,VA,NJ
Bromodichloromethane	CT,NY,ME,NH,VA,NJ
Bromoform	CT,NY,ME,NH,VA,NJ
Bromomethane	CT,NY,ME,NH,VA,NJ
2-Butanone (MEK)	CT,NY,ME,NH,VA,NJ
tert-Butyl Alcohol (TBA)	NY,ME,NH,VA,NJ
n-Butylbenzene	NY,ME,VA,NJ
sec-Butylbenzene	NY,ME,VA,NJ
tert-Butylbenzene	NY,ME,VA,NJ
tert-Butyl Ethyl Ether (TBEE)	NY,ME,NH,VA,NJ
Carbon Disulfide	CT,NY,ME,NH,VA,NJ
Carbon Tetrachloride	CT,NY,ME,NH,VA,NJ
Chlorobenzene	CT,NY,ME,NH,VA,NJ
Chlorodibromomethane	CT,NY,ME,NH,VA,NJ
Chloroethane	CT,NY,ME,NH,VA,NJ
Chloroform	CT,NY,ME,NH,VA,NJ
Chloromethane	CT,NY,ME,NH,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
2-Chlorotoluene	NY,ME,NH,VA,NJ
4-Chlorotoluene	NY,ME,NH,VA,NJ
Dibromomethane	NY,ME,NH,VA,NJ
1,2-Dichlorobenzene	CT,NY,ME,NH,VA,NJ
1,3-Dichlorobenzene	CT,NY,ME,NH,VA,NJ
1,4-Dichlorobenzene	CT,NY,ME,NH,VA,NJ
trans-1,4-Dichloro-2-butene	NY,ME,NH,VA,NJ
Dichlorodifluoromethane (Freon 12)	NY,ME,NH,VA,NJ
1,1-Dichloroethane	CT,NY,ME,NH,VA,NJ
1,2-Dichloroethane	CT,NY,ME,NH,VA,NJ
1,1-Dichloroethylene	CT,NY,ME,NH,VA,NJ
cis-1,2-Dichloroethylene	NY,ME,NJ
trans-1,2-Dichloroethylene	CT,NY,ME,NH,VA,NJ
1,2-Dichloropropane	CT,NY,ME,NH,VA,NJ
1,3-Dichloropropane	NY,ME,VA,NJ
2,2-Dichloropropane	NY,ME,NH,VA,NJ
1,1-Dichloropropene	NY,ME,NH,VA,NJ
cis-1,3-Dichloropropene	CT,NY,ME,NH,VA,NJ
trans-1,3-Dichloropropene	CT,NY,ME,NH,VA,NJ
Diisopropyl Ether (DIPE)	NY,ME,NH,VA,NJ
Ethylbenzene	CT,NY,ME,NH,VA,NJ
Hexachlorobutadiene	CT,NY,ME,NH,VA,NJ
2-Hexanone (MBK)	CT,NY,ME,NH,VA,NJ
Isopropylbenzene (Cumene)	NY,ME,VA,NJ
p-Isopropyltoluene (p-Cymene)	CT,NY,ME,NH,VA,NJ
Methyl tert-Butyl Ether (MTBE)	CT,NY,ME,NH,VA,NJ
Methylene Chloride	CT,NY,ME,NH,VA,NJ
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA,NJ
Naphthalene	NY,ME,NH,VA,NJ
n-Propylbenzene	CT,NY,ME,NH,VA,NJ
Styrene	CT,NY,ME,NH,VA,NJ
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA,NJ
Tetrachloroethylene	CT,NY,ME,NH,VA,NJ
Toluene	CT,NY,ME,NH,VA,NJ
1,2,3-Trichlorobenzene	NY,ME,NH,VA,NJ
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA,NJ
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA,NJ
1,1,2-Trichloroethane	CT,NY,ME,NH,VA,NJ
Trichloroethylene	CT,NY,ME,NH,VA,NJ
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA,NJ
1,2,3-Trichloropropane	NY,ME,NH,VA,NJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA,NJ
1,2,4-Trimethylbenzene	NY,ME,VA,NJ
1,3,5-Trimethylbenzene	NY,ME,VA,NJ
Vinyl Chloride	CT,NY,ME,NH,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
m+p Xylene	CT,NY,ME,NH,VA
o-Xylene	CT,NY,ME,NH,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA,NJ
Acenaphthylene	CT,NY,NH,ME,NC,VA,NJ
Acetophenone	NY,NH,ME,NC,VA,NJ
Aniline	NY,NH,ME,NC,VA,NJ
Anthracene	CT,NY,NH,ME,NC,VA,NJ
Benzidine	CT,NY,NH,ME,NC,VA,NJ
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA,NJ
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA,NJ
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA,NJ
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA,NJ
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA,NJ
Benzoic Acid	NY,NH,ME,NC,VA,NJ
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA,NJ
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA,NJ
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA,NJ
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA,NJ
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA,NJ
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA,NJ
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA,NJ
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA,NJ
2-Chloronaphthalene	CT,NY,NH,NC,VA,NJ
2-Chlorophenol	CT,NY,NH,ME,NC,VA,NJ
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA,NJ
Chrysene	CT,NY,NH,ME,NC,VA,NJ
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA,NJ
Dibenzofuran	CT,NY,NH,ME,NC,VA,NJ
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA,NJ
1,2-Dichlorobenzene	NY,NH,ME,NC,VA,NJ
1,3-Dichlorobenzene	NY,NH,ME,NC,VA,NJ
1,4-Dichlorobenzene	NY,NH,ME,NC,VA,NJ
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA,NJ
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA,NJ
Diethylphthalate	CT,NY,NH,ME,NC,VA,NJ
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA,NJ
Dimethylphthalate	CT,NY,NH,ME,NC,VA,NJ
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA,NJ
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA,NJ
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA,NJ
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA,NJ
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA,NJ
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA,NJ
Fluoranthene	CT,NY,NH,ME,NC,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Fluorene	NY,NH,ME,NC,VA,NJ
Hexachlorobenzene	CT,NY,NH,ME,NC,VA,NJ
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA,NJ
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA,NJ
Hexachloroethane	CT,NY,NH,ME,NC,VA,NJ
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA,NJ
Isophorone	CT,NY,NH,ME,NC,VA,NJ
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA,NJ
2-Methylphenol	CT,NY,NH,ME,NC,VA,NJ
3/4-Methylphenol	CT,NY,NH,ME,NC,VA,NJ
Naphthalene	CT,NY,NH,ME,NC,VA,NJ
2-Nitroaniline	CT,NY,NH,ME,NC,VA,NJ
3-Nitroaniline	CT,NY,NH,ME,NC,VA,NJ
4-Nitroaniline	CT,NY,NH,ME,NC,VA,NJ
Nitrobenzene	CT,NY,NH,ME,NC,VA,NJ
2-Nitrophenol	CT,NY,NH,ME,NC,VA,NJ
4-Nitrophenol	CT,NY,NH,ME,NC,VA,NJ
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA,NJ
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA,NJ
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA,NJ
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NH,ME,NC,VA,NJ
Phenanthrene	CT,NY,NH,ME,NC,VA,NJ
Phenol	CT,NY,NH,ME,NC,VA,NJ
Pyrene	CT,NY,NH,ME,NC,VA,NJ
Pyridine	CT,NY,NH,ME,NC,VA,NJ
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA,NJ
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA,NJ
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA,NJ
2-Fluorophenol	NC
SW-846 8270D in Water	
Acenaphthene	CT,NY,NC,ME,NH,VA,NJ
Acenaphthylene	CT,NY,NC,ME,NH,VA,NJ
Acetophenone	NC
Aniline	CT,NY,NC,ME,VA,NJ
Anthracene	CT,NY,NC,ME,NH,VA,NJ
Benzidine	CT,NY,NC,ME,NH,VA,NJ
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA,NJ
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA,NJ
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA,NJ
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA,NJ
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA,NJ
Benzoic Acid	NY,NC,ME,NH,VA,NJ
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA,NJ
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA,NJ
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA,NJ
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA,NJ
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA,NJ
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA,NJ
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA,NJ
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA,NJ
2-Chlorophenol	CT,NY,NC,ME,NH,VA,NJ
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA,NJ
Chrysene	CT,NY,NC,ME,NH,VA,NJ
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA,NJ
Dibenzofuran	CT,NY,NC,ME,NH,VA,NJ
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA,NJ
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA,NJ
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA,NJ
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA,NJ
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA,NJ
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA,NJ
Diethylphthalate	CT,NY,NC,ME,NH,VA,NJ
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA,NJ
Dimethylphthalate	CT,NY,NC,ME,NH,VA,NJ
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA,NJ
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA,NJ
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA,NJ
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA,NJ
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA,NJ
1,2-Diphenylhydrazine (as Azobenzene)	NC
Fluoranthene	CT,NY,NC,ME,NH,VA,NJ
Fluorene	NY,NC,ME,NH,VA,NJ
Hexachlorobenzene	CT,NY,NC,ME,NH,VA,NJ
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA,NJ
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA,NJ
Hexachloroethane	CT,NY,NC,ME,NH,VA,NJ
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA,NJ
Isophorone	CT,NY,NC,ME,NH,VA,NJ
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA,NJ
2-Methylphenol	CT,NY,NC,NH,VA,NJ
3/4-Methylphenol	CT,NY,NC,NH,VA,NJ
Naphthalene	CT,NY,NC,ME,NH,VA,NJ
2-Nitroaniline	CT,NY,NC,ME,NH,VA,NJ
3-Nitroaniline	CT,NY,NC,ME,NH,VA,NJ
4-Nitroaniline	CT,NY,NC,ME,NH,VA,NJ
Nitrobenzene	CT,NY,NC,ME,NH,VA,NJ
2-Nitrophenol	CT,NY,NC,ME,NH,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
4-Nitrophenol	CT,NY,NC,ME,NH,VA,NJ
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA,NJ
N-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA,NJ
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA,NJ
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA,NJ
Phenanthrene	CT,NY,NC,ME,NH,VA,NJ
Phenol	CT,NY,NC,ME,NH,VA,NJ
Pyrene	CT,NY,NC,ME,NH,VA,NJ
Pyridine	CT,NY,NC,ME,NH,VA,NJ
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA,NJ
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA,NJ
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA,NJ
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	10/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028



con-test
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

Company Name: EA Engineering
Address: 6712 Brooklawn Pkwy, Ste 104 Syracuse NY 13211
Telephone: 315 431 4610
Client PO#: 1490730

Attention: Megan Miller
Project Location: Sewall's Island
Sampled By: E. Cummings / M. Miller

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
 Email: mmiller@east.com
 Format: PDF EXCEL GIS OTHER NYS EAMS ECH "Enhanced Data Package" V3

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Matrix Code	Func Code
		Beginning Date/Time	Ending Date/Time		
01	SS-43-EA-0-2	9/22/15	9/22/15	S	U
02	SS-44-EA-0-2		1031		
03	SS-45-EA-0-2		1052		
04	SS-46-EA-0-2		1105		
05	SS-47-EA-0-1		1125		
06	SS-48-EA-0-1		1140		
07	SS-49-EA-0-2		1210		
08	SS-50-EA-0-2		1236		
09	SS-51-EA-0-1		1152		
10	SS-52-EA-0-1		1287		

Comments: Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time	Relinquished by:	Date/Time
<i>E. Cummings</i>	9/23/15/1715		
<i>Paula P.</i>	9-24-15		

ANALYSIS REQUESTED

Program information/Regulatory
 NY TOGS NY Restricted Use
 AWQ STDS NY Unrestricted Use
 NYC Sewer Discharge
 Part 360 GW (Landfill)

Deliverables
 ASP-A Equis (1 file)
 ASP-B Equis (4 file)

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT



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 Email: info@contestlabs.com
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CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

Page 2 of 4

Company Name: EA Environmental
 Address: 6717 Brooklawn Pkwy, Ste 104
 Syracuse NY 13211
 Attention: Megan Miller
 Project Location: Sewall's Island
 Sampled By: E. Cummings / M. Miller
 Telephone: 315-431-4610
 Project # 1490730
 Client PO#
 DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
 Fax #
 Email: mmiller@east.com
 Format: PDF EXCEL GIS
 OTHER NYS EAVIS EPD V3
 "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection		Composite	Grab	*Matrix Code	Cunc Code	ANALYSIS REQUESTED	# of Containers
		Beginning Date/Time	Ending Date/Time						
11	SS-53-EA-0-1	9/22/15	9/22/15	1	1	S	U	SVOCs + Metals VOCs	1
12	SS-54-EA-0-2		1330	1	1				1
13	SS-55-EA-0-2		1320	1	1				I
14	SS-56-EA-0-1		1350	1	1				I
15	SS-57-EA-0-1		1455	3	3				A
16	SS-58-EA-0-1		1510	1	1				A
17	SS-59-EA-0-1		1515	1	1				A
18	SS-60-EA-0-1		1526	1	1				A
19	SS-61-EA-0-1		1545	1	1				A

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) *E. Cummings* Date/Time: 9/23/15 1715
 Received by: (signature) *Paula* Date/Time: 10:06
 Relinquished by: (signature) Date/Time: 9-24-15
 Received by: (signature) Date/Time:

Turnaround: 5-Day 7 Day 10-Day or RUSH [†]
 24 hr 48 hr
 72 hr 4 day
[†] Require lab approval

Program Information/Regulatory
 NY TOGS NY Restricted Use
 AWQ STDS NY Unrestricted Use
 NYC Sewer Discharge
 Part 360 GW (Landfill)
 Deliverables
 ASP-A Equis (1 file)
 ASP-B Equis (4 file)

NY Part 375
 NY CP-51
 Other:
 Other:

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT

CHAIN OF CUSTODY RECORD

NEW YORK STATE

39 Spruce Street
East Longmeadow, MA 01028

Company Name: EA Engineering
Address: 6717 Brooklawn Pkwy, Ste 104
Telephone: 315 431 4610
Project #: 1490730
Client PO#: _____

Attention: M. Miller
Project Location: Sewalls Island
Sampled By: EGC/MM
Syracuse NY 13211

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
 Email: See pg 1
 Format: PDF EXCEL GIS OTHER

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	*Matrix Date	*Date Code
		Beginning Date/Time	Ending Date/Time				
20	SS-62-EA-0-1	9/22/15	1600	1	1	S	
21	SS-63-EA-0-1	9/22/15	1602	1	1	S	
22	SS-64-EA-0-1	9/22/15	1608	3	3	S	
23	SS-65-EA-0-1	9/22/15	1618	1	1	S	
24	RB-092215	9/22/15	1630	-	6	0	
25	RB-092315	9/23/15	1415	-	6	0	
26	DUP-01	-	-	1	1	S	
27	DUP-02	-	-	1	1	S	
28	CD-01-EA	9/23/15	1005	1	1	S	
29	CD-02-EA	1	1025	1	1	S	

Comments: _____

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time	Relinquished by:	Date/Time
<u>[Signature]</u>	9/23/15 1715		
<u>[Signature]</u>	10:06		
<u>[Signature]</u>	9:24:15		

Program information/Regulatory
 5-Day
 7 Day
 10-Day or RUSH †
 24 hr 48 hr
 72 hr 4 day
 † require lab approval

Turnaround
 NY TOGS NY Restricted Use
 AWQ STDS NY Unrestricted Use
 NYC Sewer Discharge
 Part 360 GW (Landfill)
 Deliverables
 ASP-A Equis (1 file)
 ASP-B Equis (4 file)

Other: NY Part 375 NY CP-51 Other:

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT



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 Email: info@contestlabs.com
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CHAIN OF CUSTODY RECORD
 NEW YORK STATE

39 Spruce Street
 East Longmeadow, MA 01028

Company Name: EA Engineering
 Address: 6712 Brooklawn Pkwy, Ste 101
 Syracuse NY 13211
 Attention: M. Miller
 Project Location: Sewall's Island
 Sampled By: FAC/MM

Telephone: 315 431 4610
 Project # 1490730
 Client PO#

DATA DELIVERY (check all that apply)

FAX EMAIL WEBSITE

Fax #

Email: See pg 1

Format: PDF EXCEL GIS

OTHER

"Enhanced Data Package"

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Matrix Code	Cont Code
		Beginning Date/Time	Ending Date/Time		
30	CD-03-EA	9/23/15	1500	1	S
31	CD-04-EA		1055		
32	CD-05-EA		1200		
33	CD-06-EA		1400		
34	CD-07-EA		1405		

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

Relinquished by: (signature) <i>Emily Gamin</i>	Date/Time: 9/23/15/1715	Relinquished by:	Date/Time:
Received by: (signature) <i>Paula</i>	Date/Time: 9-24-15	Received by:	Date/Time:
Relinquished by: (signature)	Date/Time:	Relinquished by:	Date/Time:
Received by: (signature)	Date/Time:	Received by:	Date/Time:

Turnaround
 5-Day
 7 Day
 10-Day or RUSH ¹
 24 hr 48 hr
 72 hr 4 day
¹ Require lab approval

Program information/Regulatory
 NY TOGS NY Restricted Use
 AWQ STDS NY Unrestricted Use
 NYC Sewer Discharge
 Part 360 GW (Landfill)
Deliverables
 ASP-A Equis (1 file)
 ASP-B Equis (4 file)

ANALYSIS REQUESTED	Matrix Code	Cont Code	Conc Code
SVOCS + Metals	X	X	X
	X	X	X
	X	X	X
	X	X	X
	X	X	X

of Containers
 ** Preservation
 *** Container Code

Dissolved Metals
 Field Filtered
 Lab to Filter

*****Cont. Code:**
 A=amber glass
 G=glass
 P=plastic
 ST=sterile
 V= vial
 S=Summa can
 T=tedlar bag
 O=Other

****Preservation**
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 X = Na hydroxide
 T = Na thiosulfate
 O = Other

***Matrix Code:**
 GW= groundwater
 WW= wastewater
 DW= drinking water
 A = air
 S = soil/solid
 SL = sludge
 O = other

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT



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Updated: 09/24/2015 11:32 A.M. Eastern Time

Delivered

Need more information?

Get Help

Delivered On:
Thursday, 09/24/2015 at 10:06 A.M.

Request Status Updates »

Left At:
Receiver

Signed By:
BLAKE

[Proof of Delivery](#)

Shipping Information

To:
EAST LONGMEADOW, MA, US

Shipped By

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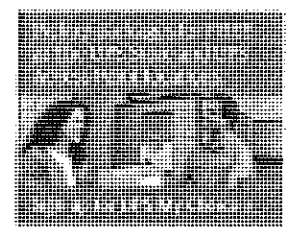
Continue

Shipment Progress

What's This?

Additional Information

Multiple Packages:	4
Shipped/Billed On:	09/23/2015
Type:	Package
UPS carbon neutral:	Yes
Weight:	10.00 lbs



Packages in this Shipment (Total Packages: 4)

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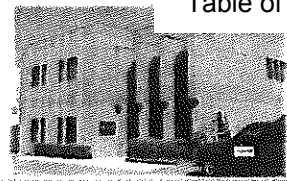
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39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: EA Engineering RECEIVED BY: PB DATE: 9-24-15

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 2) Does the chain agree with the samples? Yes No
 If not, explain: _____
- 3) Are all the samples in good condition? Yes No
 If not, explain: _____

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank 3.0 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes No
 Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
 Who was notified _____ Date _____ Time _____

7) Location where samples are stored: Log in
 Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	4	8 oz amber clear jar	36
500 mL Amber		4 oz amber clear jar	36
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic	2	Non-ConTest Container	
40 mL Vial - type listed below	6	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments: _____

40 mL vials: # HCl _____ # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____
 Time and Date Frozen: _____

Doc# 277

Rev. 4 August 2013

Login Sample Receipt Checklist**(Rejection Criteria Listing - Using Sample Acceptance Policy)****Any False statement will be brought to the attention of Client**

<u>Question</u>	<u>Answer (True/False)</u>		<u>Comment</u>
	T	F/NA	
1) The cooler's custody seal, if present, is intact.		N/A	
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	T		
4) Cooler Temperature is acceptable.	T		
5) Cooler Temperature is recorded.	T		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC.	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.		N/A	
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used.	T		
16) Proper collection media used.	T		
17) No headspace sample bottles are completely filled.	T		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.		N/A	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T		
21) Samples do not require splitting or compositing.	T		

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials: PB

Date/Time:

Date/Time: 9.24.15
10:06

CHAIN OF CUSTODY RECORD

NEW YORK STATE

Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 www.contestlabs.com



39 Spruce Street
 East Longmeadow, MA 01028

Company Name: EA Engineering
 Address: 6717 Brooklawn Parkway, Ste 104
Syracuse NY 13211
 Attention: M. Miller
 Project Location: Sewalls Island
 Sampled By: EGC/MM

Telephone: 315 431 4610
 Project # 1490730
 Client PO#

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
 Fax #
 Email: See pg 1
 Format: PDF EXCEL GIS OTHER

Project Proposal Provided? (for billing purposes)

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Matrix Conc Code
		Beginning Date/Time	Ending Date/Time	
20	SS-62-EA-0-1	9/22/15	1600	1 S
21	SS-63-EA-0-1	9/22/15	1602	1 S
22	SS-64-EA-0-1	9/22/15	1608	3 S
23	SS-65-EA-0-1	9/22/15	1618	1 S
24	RB-092215	9/22/15	1630	6 0
25	RB-092315	9/23/15	1415	6 0
26	DUP-01			1 S
27	DUP-02			1 S
28	CD-01-EA	9/23/15	1005	1 S
29	CD-02-EA	1	1025	1 S

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Turnaround
 5-Day
 7 Day
 10-Day or RUSH †
 24 hr 48 hr
 72 hr 4 day
 † Require lab approval

Relinquished by: (signature)	Date/Time:	Relinquished by:	Date/Time:
<u>Emily Collins</u>	9/23/15 1715		
Received by: (signature)	Date/Time:	Received by:	Date/Time:
Relinquished by: (signature)	Date/Time:	Relinquished by:	Date/Time:
Received by: (signature)	Date/Time:	Received by:	Date/Time:

# of Containers	** Preservation	*** Container Code
3		
I, I, I, I, I, I		
A, A, A, A, A, A		

ANALYSIS REQUESTED

Matrix Code	Conc Code	Grab	Composite	Enhanced Data Package
SVOC + Metals		X		
VOCs		X		
SVOCs		X		
Metals		X		
VOCs		X		

Disolved Metals
 Field Filtered
 Lab to Filter

***Cont. Code:
 A=amber glass
 G=glass
 P=plastic
 ST=sterile
 V=vial
 S=summa can
 T=tedlar bag
 O=Other

**Preservation
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium bisulfate
 X = Na hydroxide
 T = Na thiosulfate
 O = Other

*Matrix Code:
 GW= groundwater
 WW= wastewater
 DW= drinking water
 A = air
 S = soil/solid
 SL = sludge
 O = other HD

Program Information/Regulatory
 NY TOGS NY Restricted Use
 AWQ STDS NY Unrestricted Use
 NYC Sewer Discharge
 Part 360 GW (Landfill)

Defiverables
 ASP-A Equis (1 file)
 ASP-B Equis (4 file)

† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT

February 17, 2016

Megan Miller
EA Engineering, Science & Tech. - NY
6712 Brooklawn Parkway, Suite 104
Syracuse, NY 13211

Project Location: Sewall's Island
Client Job Number:
Project Number: 1490730
Laboratory Work Order Number: 16B0151

Enclosed are results of analyses for samples received by the laboratory on February 3, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right from the end of the signature.

Aaron L. Benoit
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

EA Engineering, Science & Tech. - NY
 6712 Brooklawn Parkway, Suite 104
 Syracuse, NY 13211
 ATTN: Megan Miller

REPORT DATE: 2/17/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490730

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16B0151

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sewall's Island

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-66-EA-0-0.5	16B0151-01	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-67-EA-0-0.5	16B0151-02	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-68-EA-0-0.5	16B0151-03	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-69-EA-0-0.5	16B0151-04	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-70-EA-0-0.5	16B0151-05	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-71-EA-0-0.5	16B0151-06	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-72-EA-0-0.5	16B0151-07	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-73-EA-0-0.5	16B0151-08	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

EA Engineering, Science & Tech. - NY
 6712 Brooklawn Parkway, Suite 104
 Syracuse, NY 13211
 ATTN: Megan Miller

REPORT DATE: 2/17/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490730

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16B0151

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sewall's Island

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-74-EA-0-0.5	16B0151-09	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-75-EA-0-0.5	16B0151-10	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-76-EA-0-0.5	16B0151-11	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-77-EA-0-0.5	16B0151-12	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
SS-DUP-EA	16B0151-13	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
RB-020216	16B0151-14	Equipment Blank Water		SW-846 6010C SW-846 7470A SW-846 8260C SW-846 8270D	
TB-020216	16B0151-15	Trip Blank Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 6010C

Qualifications:**B**

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:**Aluminum**

16B0151-01[SS-66-EA-0-0.5], 16B0151-02[SS-67-EA-0-0.5], 16B0151-03[SS-68-EA-0-0.5], 16B0151-04[SS-69-EA-0-0.5], 16B0151-05[SS-70-EA-0-0.5],
16B0151-06[SS-71-EA-0-0.5], 16B0151-07[SS-72-EA-0-0.5], 16B0151-08[SS-73-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5],
16B0151-11[SS-76-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], 16B0151-13[SS-DUP-EA], B141851-BS1, B141851-BSD1, B141851-DUP1, B141851-MS1, B141851-MSD1

B-07

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:**Aluminum**

16B0151-01[SS-66-EA-0-0.5], 16B0151-02[SS-67-EA-0-0.5], 16B0151-03[SS-68-EA-0-0.5], 16B0151-04[SS-69-EA-0-0.5], 16B0151-05[SS-70-EA-0-0.5],
16B0151-06[SS-71-EA-0-0.5], 16B0151-07[SS-72-EA-0-0.5], 16B0151-08[SS-73-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5],
16B0151-11[SS-76-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], 16B0151-13[SS-DUP-EA], B141851-BLK1

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**Sodium**

B141465-BS2, B141465-BSD2

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Antimony**

16B0151-01[SS-66-EA-0-0.5], B141851-MS1, B141851-MSD1

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**Manganese**

16B0151-01[SS-66-EA-0-0.5], B141851-MS1, B141851-MSD1

Selenium

16B0151-01[SS-66-EA-0-0.5], B141851-MS1, B141851-MSD1

Sodium

16B0151-01[SS-66-EA-0-0.5], B141851-MS1, B141851-MSD1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:**Aluminum**

16B0151-01[SS-66-EA-0-0.5], B141851-MS1, B141851-MSD1

Calcium

16B0151-01[SS-66-EA-0-0.5], B141851-MS1, B141851-MSD1

Iron

16B0151-01[SS-66-EA-0-0.5], B141851-MS1, B141851-MSD1

Magnesium

16B0151-01[SS-66-EA-0-0.5], B141851-MS1, B141851-MSD1

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:**Iron**

16B0151-01[SS-66-EA-0-0.5], B141851-DUP1

Magnesium

16B0151-01[SS-66-EA-0-0.5], B141851-DUP1

SW-846 7471B

Qualifications:**MS-07**

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Mercury**

16B0151-01[SS-66-EA-0-0.5], B141852-MS1, B141852-MSD1

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:**Mercury**

16B0151-01[SS-66-EA-0-0.5], B141852-DUP1

SW-846 8260C

Qualifications:**L-02**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**1,2-Dichloroethane**

B142153-BS1, B142153-BSD1

Bromochloromethane

B142153-BS1, B142153-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Chloromethane**

16B0151-01[SS-66-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5], 16B0151-11[SS-76-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], 16B0151-13[SS-DUP-EA], B141573-BLK1, B141573-BS1, B141573-BSD1, B141573-MS1, B141573-MSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Chloromethane**

B141471-BSD1

Dichlorodifluoromethane (Freon 12)

B141573-BSD1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Bromomethane**

16B0151-01[SS-66-EA-0-0.5], B141573-MS1, B141573-MSD1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**Chloromethane**

16B0151-01[SS-66-EA-0-0.5], B141573-MS1, B141573-MSD1

Dichlorodifluoromethane (Freon 12)

16B0151-01[SS-66-EA-0-0.5], B141573-MS1, B141573-MSD1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

B141573-MSD1

trans-1,4-Dichloro-2-butene

B141573-MSD1

Vinyl Chloride

B141573-MSD1

PR-03

Sample preserved in the laboratory, not in the field as required by the method.

Analyte & Samples(s) Qualified:

16B0151-01[SS-66-EA-0-0.5], 16B0151-02[SS-67-EA-0-0.5], 16B0151-03[SS-68-EA-0-0.5], 16B0151-04[SS-69-EA-0-0.5], 16B0151-05[SS-70-EA-0-0.5], 16B0151-06[SS-71-EA-0-0.5], 16B0151-07[SS-72-EA-0-0.5], 16B0151-08[SS-73-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5], 16B0151-11[SS-76-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], 16B0151-13[SS-DUP-EA]

PR-15

According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.

Analyte & Samples(s) Qualified:

16B0151-01[SS-66-EA-0-0.5], 16B0151-02[SS-67-EA-0-0.5], 16B0151-03[SS-68-EA-0-0.5], 16B0151-04[SS-69-EA-0-0.5], 16B0151-05[SS-70-EA-0-0.5], 16B0151-06[SS-71-EA-0-0.5], 16B0151-07[SS-72-EA-0-0.5], 16B0151-08[SS-73-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5], 16B0151-11[SS-76-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], 16B0151-13[SS-DUP-EA]

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,2-Dichloroethane**

B142153-BS1, B142153-BSD1

Bromochloromethane

B142153-BS1, B142153-BSD1

SW-846 8270D**Qualifications:****L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

16B0151-01[SS-66-EA-0-0.5], 16B0151-02[SS-67-EA-0-0.5], 16B0151-03[SS-68-EA-0-0.5], 16B0151-04[SS-69-EA-0-0.5], 16B0151-05[SS-70-EA-0-0.5], 16B0151-06[SS-71-EA-0-0.5], 16B0151-07[SS-72-EA-0-0.5], 16B0151-08[SS-73-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5], 16B0151-11[SS-76-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], 16B0151-13[SS-DUP-EA], B141804-BLK1, B141804-BS1, B141804-BSD1

Benzidine

16B0151-14[RB-020216], B141388-BLK1, B141388-BS1, B141388-BSD1

Benzoic Acid

16B0151-01[SS-66-EA-0-0.5], 16B0151-02[SS-67-EA-0-0.5], 16B0151-03[SS-68-EA-0-0.5], 16B0151-04[SS-69-EA-0-0.5], 16B0151-05[SS-70-EA-0-0.5], 16B0151-06[SS-71-EA-0-0.5], 16B0151-07[SS-72-EA-0-0.5], 16B0151-08[SS-73-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5], 16B0151-11[SS-76-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], 16B0151-13[SS-DUP-EA], B141804-BLK1, B141804-BS1, B141804-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Aniline**

B141388-BS1

N-Nitrosodimethylamine

B141388-BS1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

3,3-Dichlorobenzidine

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

3-Nitroaniline

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

4-Chloroaniline

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

Aniline

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

Benzidine

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

Benzoic Acid

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

Fluoranthene

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

Hexachlorocyclopentadiene

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

Pyridine

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**4-Nitroaniline**

B141804-MS1

Benzo(g,h,i)perylene

B141804-MS1

Indeno(1,2,3-cd)pyrene

B141804-MS1

N-Nitrosodimethylamine

B141804-MS1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**4,6-Dinitro-2-methylphenol**

B141804-MS1

Benzo(b)fluoranthene

B141804-MS1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**2,4-Dimethylphenol**

16B0151-14[RB-020216], B141388-BLK1, B141388-BS1, B141388-BSD1

Benzidine

16B0151-14[RB-020216], B141388-BLK1, B141388-BS1, B141388-BSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**3,3-Dichlorobenzidine**

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

4,6-Dinitro-2-methylphenol

16B0151-01[SS-66-EA-0-0.5], B141804-MSD1

Aniline

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

Benzo(b)fluoranthene

16B0151-01[SS-66-EA-0-0.5], B141804-MSD1

Benzo(k)fluoranthene

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

Dibenz(a,h)anthracene

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

Di-n-octylphthalate

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

Hexachlorocyclopentadiene

16B0151-01[SS-66-EA-0-0.5], B141804-MS1, B141804-MSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

16B0151-09[SS-74-EA-0-0.5]

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

16B0151-08[SS-73-EA-0-0.5], 16B0151-13[SS-DUP-EA]

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:**2,4,6-Tribromophenol**

B141804-BS1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:**Benzidine**

16B0151-01[SS-66-EA-0-0.5], 16B0151-02[SS-67-EA-0-0.5], 16B0151-03[SS-68-EA-0-0.5], 16B0151-04[SS-69-EA-0-0.5], 16B0151-05[SS-70-EA-0-0.5], 16B0151-06[SS-71-EA-0-0.5], 16B0151-07[SS-72-EA-0-0.5], 16B0151-08[SS-73-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5], 16B0151-11[SS-76-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], 16B0151-13[SS-DUP-EA], 16B0151-14[RB-020216], B141388-BLK1, B141388-BS1, B141388-BSD1, B141804-BLK1, B141804-BS1, B141804-BSD1, B141804-MS1, B141804-MSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,2-Diphenylhydrazine (as Azobenz**

16B0151-06[SS-71-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5]

2-Methylphenol

16B0151-06[SS-71-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5]

2-Nitroaniline

16B0151-06[SS-71-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5]

Aniline

16B0151-06[SS-71-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5]

Benzidine

16B0151-01[SS-66-EA-0-0.5], 16B0151-02[SS-67-EA-0-0.5], 16B0151-03[SS-68-EA-0-0.5], 16B0151-04[SS-69-EA-0-0.5], 16B0151-05[SS-70-EA-0-0.5], 16B0151-06[SS-71-EA-0-0.5], 16B0151-07[SS-72-EA-0-0.5], 16B0151-08[SS-73-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5], 16B0151-11[SS-76-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], 16B0151-13[SS-DUP-EA], 16B0151-14[RB-020216], B141388-BLK1, B141388-BS1, B141388-BSD1, B141804-BLK1, B141804-BS1, B141804-BSD1, B141804-MS1, B141804-MSD1

Benzoic Acid

16B0151-01[SS-66-EA-0-0.5], 16B0151-02[SS-67-EA-0-0.5], 16B0151-03[SS-68-EA-0-0.5], 16B0151-04[SS-69-EA-0-0.5], 16B0151-05[SS-70-EA-0-0.5], 16B0151-08[SS-73-EA-0-0.5], 16B0151-11[SS-76-EA-0-0.5], 16B0151-13[SS-DUP-EA], B141804-BLK1, B141804-BS1, B141804-BSD1

Bis(2-chloroisopropyl)ether

16B0151-06[SS-71-EA-0-0.5], 16B0151-07[SS-72-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], B141804-MS1, B141804-MSD1

Hexachlorocyclopentadiene

16B0151-06[SS-71-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5]

N-Nitrosodimethylamine

16B0151-01[SS-66-EA-0-0.5], 16B0151-02[SS-67-EA-0-0.5], 16B0151-03[SS-68-EA-0-0.5], 16B0151-04[SS-69-EA-0-0.5], 16B0151-05[SS-70-EA-0-0.5], 16B0151-06[SS-71-EA-0-0.5], 16B0151-07[SS-72-EA-0-0.5], 16B0151-08[SS-73-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5], 16B0151-11[SS-76-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], 16B0151-13[SS-DUP-EA], B141804-BLK1, B141804-BS1, B141804-BSD1, B141804-MS1, B141804-MSD1

Pyridine

16B0151-01[SS-66-EA-0-0.5], 16B0151-02[SS-67-EA-0-0.5], 16B0151-03[SS-68-EA-0-0.5], 16B0151-04[SS-69-EA-0-0.5], 16B0151-05[SS-70-EA-0-0.5], 16B0151-06[SS-71-EA-0-0.5], 16B0151-08[SS-73-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-11[SS-76-EA-0-0.5], 16B0151-13[SS-DUP-EA], B141804-BLK1, B141804-BS1, B141804-BSD1, B141804-MS1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**Pentachloronitrobenzene**

16B0151-01[SS-66-EA-0-0.5], 16B0151-02[SS-67-EA-0-0.5], 16B0151-03[SS-68-EA-0-0.5], 16B0151-04[SS-69-EA-0-0.5], 16B0151-05[SS-70-EA-0-0.5], 16B0151-06[SS-71-EA-0-0.5], 16B0151-07[SS-72-EA-0-0.5], 16B0151-08[SS-73-EA-0-0.5], 16B0151-09[SS-74-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5], 16B0151-11[SS-76-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], 16B0151-13[SS-DUP-EA], 16B0151-14[RB-020216], B141388-BLK1, B141388-BS1, B141388-BSD1, B141804-BLK1, B141804-BS1, B141804-BSD1, B141804-MS1, B141804-MSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**Hexachlorocyclopentadiene**

16B0151-14[RB-020216], B141388-BLK1, B141388-BS1, B141388-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Benzoic Acid**

16B0151-07[SS-72-EA-0-0.5], 16B0151-10[SS-75-EA-0-0.5], 16B0151-12[SS-77-EA-0-0.5], B141804-MS1, B141804-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink that reads "Tod Kopycinski". The signature is written in a cursive style with a large, sweeping initial "T".

Tod E. Kopycinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-66-EA-0-0.5

Sampled: 2/2/2016 10:00

Sample ID: 16B0151-01

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Acrylonitrile	ND	0.0068	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Bromomethane	ND	0.011	mg/Kg dry	1	MS-07A	SW-846 8260C	2/5/16	2/5/16 9:00	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
tert-Butyl Alcohol (TBA)	ND	0.045	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Chloromethane	ND	0.011	mg/Kg dry	1	L-04, MS-09	SW-846 8260C	2/5/16	2/5/16 9:00	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1	MS-09	SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Diethyl Ether	ND	0.023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-66-EA-0-0.5

Sampled: 2/2/2016 10:00

Sample ID: 16B0151-01

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,3,5-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	82.6	70-130	2/5/16 9:00
Toluene-d8	97.2	70-130	2/5/16 9:00
4-Bromofluorobenzene	96.4	70-130	2/5/16 9:00

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-66-EA-0-0.5

Sampled: 2/2/2016 10:00

Sample ID: 16B0151-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Aniline	ND	0.41	mg/Kg dry	1	MS-09, R-06	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Benzidine	ND	0.79	mg/Kg dry	1	MS-09, V-04, V-05	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Benzo(a)anthracene	0.60	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Benzo(a)pyrene	0.65	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Benzo(b)fluoranthene	0.92	0.20	mg/Kg dry	1	R-06	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Benzo(g,h,i)perylene	0.53	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Benzo(k)fluoranthene	0.33	0.20	mg/Kg dry	1	R-06	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1	L-04, MS-09, V-05	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
4-Chloroaniline	ND	0.79	mg/Kg dry	1	MS-09	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
4-Chloro-3-methylphenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
4-Chlorophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Chrysene	0.76	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	MS-09, R-06	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg dry	1	R-06	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1	L-04, MS-09	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1	R-06	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Fluoranthene	1.0	0.20	mg/Kg dry	1	MS-09	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-66-EA-0-0.5

Sampled: 2/2/2016 10:00

Sample ID: 16B0151-01

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Hexachlorocyclopentadiene	ND	0.41	mg/Kg dry	1	MS-09, R-06	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Indeno(1,2,3-cd)pyrene	0.49	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
1-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
3-Nitroaniline	ND	0.41	mg/Kg dry	1	MS-09	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
4-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
N-Nitrosodimethylamine	ND	0.41	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
N-Nitrosodiphenylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
N-Nitrosodi-n-propylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Pentachloronitrobenzene	ND	0.41	mg/Kg dry	1	V-16	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Phenanthrene	0.48	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Pyrene	1.0	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Pyridine	ND	0.41	mg/Kg dry	1	MS-09, V-05	SW-846 8270D	2/10/16	2/11/16 16:28	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:28	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		74.6	30-130					2/11/16 16:28	
Phenol-d6		77.0	30-130					2/11/16 16:28	
Nitrobenzene-d5		70.6	30-130					2/11/16 16:28	
2-Fluorobiphenyl		76.7	30-130					2/11/16 16:28	
2,4,6-Tribromophenol		96.5	30-130					2/11/16 16:28	
p-Terphenyl-d14		86.1	30-130					2/11/16 16:28	

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-66-EA-0-0.5

Sampled: 2/2/2016 10:00

Sample ID: 16B0151-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	8500	2.9		mg/Kg dry	1	B-07, MS-19, B	SW-846 6010C	2/10/16	2/15/16 19:15	AME
Antimony	ND	2.9		mg/Kg dry	1	MS-07A	SW-846 6010C	2/10/16	2/15/16 19:15	AME
Arsenic	ND	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Barium	78	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Beryllium	ND	0.29		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Cadmium	0.46	0.29		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Calcium	71000	88		mg/Kg dry	10	MS-19	SW-846 6010C	2/10/16	2/16/16 16:04	AME
Chromium	18	0.58		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Cobalt	ND	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Copper	36	0.58		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Iron	14000	2.9		mg/Kg dry	1	MS-19, R-02	SW-846 6010C	2/10/16	2/16/16 17:37	AME
Lead	87	0.88		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Magnesium	3200	8.8		mg/Kg dry	1	MS-19, R-02	SW-846 6010C	2/10/16	2/15/16 19:15	AME
Manganese	420	0.58		mg/Kg dry	1	MS-12	SW-846 6010C	2/10/16	2/15/16 19:15	AME
Mercury	0.38	0.028		mg/Kg dry	1	MS-07, R-02	SW-846 7471B	2/10/16	2/12/16 10:44	SCB
Nickel	12	0.58		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Potassium	860	120		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Selenium	ND	5.8	0.89	mg/Kg dry	1	MS-12	SW-846 6010C	2/10/16	2/15/16 19:15	AME
Silver	ND	0.58		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Sodium	ND	120		mg/Kg dry	1	MS-12	SW-846 6010C	2/10/16	2/15/16 19:15	AME
Thallium	ND	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Vanadium	19	1.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME
Zinc	130	1.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:15	AME

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-66-EA-0-0.5

Sampled: 2/2/2016 10:00

Sample ID: 16B0151-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.8		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-67-EA-0-0.5

Sampled: 2/2/2016 10:11

Sample ID: 16B0151-02

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Acrylonitrile	ND	0.0063	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
2-Butanone (MEK)	ND	0.042	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
tert-Butyl Alcohol (TBA)	ND	0.042	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Carbon Disulfide	ND	0.0063	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Chloroform	ND	0.0042	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
trans-1,4-Dichloro-2-butene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,1-Dichloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Diethyl Ether	ND	0.021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-67-EA-0-0.5

Sampled: 2/2/2016 10:11

Sample ID: 16B0151-02

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Naphthalene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,3,5-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
m+p Xylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	105	70-130	2/4/16 17:28
Toluene-d8	98.5	70-130	2/4/16 17:28
4-Bromofluorobenzene	91.4	70-130	2/4/16 17:28

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-67-EA-0-0.5

Sampled: 2/2/2016 10:11

Sample ID: 16B0151-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Acenaphthylene	2.4	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Aniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Anthracene	0.88	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Benzidine	ND	0.78	mg/Kg dry	1	V-04, V-05	SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Benzo(a)anthracene	5.0	1.0	mg/Kg dry	5		SW-846 8270D	2/10/16	2/12/16 19:53	CMR
Benzo(a)pyrene	5.8	1.0	mg/Kg dry	5		SW-846 8270D	2/10/16	2/12/16 19:53	CMR
Benzo(b)fluoranthene	10	1.0	mg/Kg dry	5		SW-846 8270D	2/10/16	2/12/16 19:53	CMR
Benzo(g,h,i)perylene	4.4	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Benzo(k)fluoranthene	4.4	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1	L-04, V-05	SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Carbazole	0.46	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
4-Chloroaniline	ND	0.78	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
4-Chloro-3-methylphenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Chrysene	6.1	1.0	mg/Kg dry	5		SW-846 8270D	2/10/16	2/12/16 19:53	CMR
Dibenz(a,h)anthracene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Dibenzofuran	0.42	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2,4-Dinitrophenol	ND	0.78	mg/Kg dry	1	L-04	SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Fluoranthene	7.6	1.0	mg/Kg dry	5		SW-846 8270D	2/10/16	2/12/16 19:53	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-67-EA-0-0.5

Sampled: 2/2/2016 10:11

Sample ID: 16B0151-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Indeno(1,2,3-cd)pyrene	4.3	1.0	mg/Kg dry	5		SW-846 8270D	2/10/16	2/12/16 19:53	CMR
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
1-Methylnaphthalene	0.97	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2-Methylnaphthalene	1.3	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Naphthalene	1.1	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
3-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
4-Nitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
N-Nitrosodimethylamine	ND	0.40	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/11/16 16:54	CMR
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1	V-16	SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Phenanthrene	1.9	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Pyrene	8.4	1.0	mg/Kg dry	5		SW-846 8270D	2/10/16	2/12/16 19:53	CMR
Pyridine	ND	0.40	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/11/16 16:54	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 16:54	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		72.5	30-130					2/11/16 16:54	
Phenol-d6		75.1	30-130					2/11/16 16:54	
Nitrobenzene-d5		71.4	30-130					2/11/16 16:54	
2-Fluorobiphenyl		82.5	30-130					2/11/16 16:54	
2,4,6-Tribromophenol		89.8	30-130					2/11/16 16:54	
p-Terphenyl-d14		92.7	30-130					2/11/16 16:54	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-67-EA-0-0.5

Sampled: 2/2/2016 10:11

Sample ID: 16B0151-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5100	2.7		mg/Kg dry	1	B-07, B	SW-846 6010C	2/10/16	2/15/16 19:19	AME
Antimony	4.2	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Arsenic	17	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Barium	74	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Beryllium	ND	0.27		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Cadmium	1.3	0.27		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Calcium	21000	8.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Chromium	28	0.55		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Cobalt	5.7	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Copper	120	0.55		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Iron	26000	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/16/16 17:42	AME
Lead	140	0.82		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Magnesium	1800	8.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Manganese	400	0.55		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Mercury	0.21	0.027		mg/Kg dry	1		SW-846 7471B	2/10/16	2/12/16 10:45	SCB
Nickel	27	0.55		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Potassium	890	110		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Selenium	ND	5.5	0.84	mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Silver	ND	0.55		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Sodium	ND	110		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Thallium	ND	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Vanadium	17	1.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME
Zinc	200	1.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:19	AME

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-67-EA-0-0.5

Sampled: 2/2/2016 10:11

Sample ID: 16B0151-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-68-EA-0-0.5

Sampled: 2/2/2016 10:21

Sample ID: 16B0151-03

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Acrylonitrile	ND	0.0067	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Bromochloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
2-Butanone (MEK)	ND	0.044	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
tert-Butyl Alcohol (TBA)	ND	0.044	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Carbon Disulfide	ND	0.0067	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Chloroform	ND	0.0044	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
trans-1,4-Dichloro-2-butene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,1-Dichloroethylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Diethyl Ether	ND	0.022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-68-EA-0-0.5

Sampled: 2/2/2016 10:21

Sample ID: 16B0151-03

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0044	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Naphthalene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,3,5-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
m+p Xylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 17:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	107	70-130	2/4/16 17:55
Toluene-d8	97.1	70-130	2/4/16 17:55
4-Bromofluorobenzene	90.9	70-130	2/4/16 17:55

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-68-EA-0-0.5

Sampled: 2/2/2016 10:21

Sample ID: 16B0151-03

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Acenaphthylene	0.23	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Aniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Benzidine	ND	0.78	mg/Kg dry	1	V-05, V-04	SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Benzo(a)anthracene	0.99	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Benzo(a)pyrene	0.98	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Benzo(b)fluoranthene	1.7	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Benzo(g,h,i)perylene	0.50	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Benzo(k)fluoranthene	0.67	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1	L-04, V-05	SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
4-Chloroaniline	ND	0.78	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
4-Chloro-3-methylphenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
4-Chlorophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Chrysene	1.1	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2,4-Dinitrophenol	ND	0.78	mg/Kg dry	1	L-04	SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Fluoranthene	1.6	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-68-EA-0-0.5

Sampled: 2/2/2016 10:21

Sample ID: 16B0151-03

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Indeno(1,2,3-cd)pyrene	0.60	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
1-Methylnaphthalene	0.43	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2-Methylnaphthalene	0.53	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Naphthalene	0.40	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
3-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
4-Nitroaniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
4-Nitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
N-Nitrosodimethylamine	ND	0.40	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/11/16 17:22	CMR
N-Nitrosodiphenylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
N-Nitrosodi-n-propylamine	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Pentachloronitrobenzene	ND	0.40	mg/Kg dry	1	V-16	SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Phenanthrene	0.77	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Pyrene	1.6	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
Pyridine	ND	0.40	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/11/16 17:22	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:22	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	57.4	30-130	
Phenol-d6	60.8	30-130	
Nitrobenzene-d5	58.3	30-130	
2-Fluorobiphenyl	72.0	30-130	
2,4,6-Tribromophenol	79.3	30-130	
p-Terphenyl-d14	79.0	30-130	

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-68-EA-0-0.5

Sampled: 2/2/2016 10:21

Sample ID: 16B0151-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3600	2.9		mg/Kg dry	1	B, B-07	SW-846 6010C	2/10/16	2/15/16 19:23	AME
Antimony	6.7	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Arsenic	84	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Barium	93	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Beryllium	0.39	0.29		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Cadmium	3.0	0.29		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Calcium	2900	8.6		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Chromium	24	0.57		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Cobalt	14	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Copper	790	0.57		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Iron	32000	29		mg/Kg dry	10		SW-846 6010C	2/10/16	2/16/16 16:09	AME
Lead	430	0.86		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Magnesium	500	8.6		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Manganese	550	0.57		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Mercury	0.15	0.030		mg/Kg dry	1		SW-846 7471B	2/10/16	2/12/16 10:46	SCB
Nickel	32	0.57		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Potassium	440	110		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Selenium	ND	5.7	0.87	mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Silver	ND	0.57		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Sodium	160	110		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Thallium	ND	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Vanadium	20	1.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME
Zinc	300	1.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:23	AME

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-68-EA-0-0.5

Sampled: 2/2/2016 10:21

Sample ID: 16B0151-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.1		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-69-EA-0-0.5

Sampled: 2/2/2016 10:35

Sample ID: 16B0151-04

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Acrylonitrile	ND	0.0073	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Benzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Bromobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Bromochloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Bromodichloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Bromoform	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
2-Butanone (MEK)	ND	0.049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
tert-Butyl Alcohol (TBA)	ND	0.049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
n-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
sec-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
tert-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Carbon Disulfide	ND	0.0073	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Carbon Tetrachloride	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Chlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Chloroethane	ND	0.024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Chloroform	ND	0.0049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
2-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
4-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Dibromomethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,2-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,3-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,4-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
trans-1,4-Dichloro-2-butene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,1-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,2-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,1-Dichloroethylene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
cis-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
trans-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
2,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,1-Dichloropropene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Diethyl Ether	ND	0.024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-69-EA-0-0.5

Sampled: 2/2/2016 10:35

Sample ID: 16B0151-04

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Ethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Hexachlorobutadiene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
2-Hexanone (MBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Isopropylbenzene (Cumene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Methylene Chloride	ND	0.024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Naphthalene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
n-Propylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Styrene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Tetrachloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Toluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,2,3-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,2,4-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,3,5-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,1,1-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,1,2-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Trichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,2,3-Trichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,2,4-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
1,3,5-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
m+p Xylene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF
o-Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	110	70-130	2/4/16 18:23
Toluene-d8	96.7	70-130	2/4/16 18:23
4-Bromofluorobenzene	93.1	70-130	2/4/16 18:23

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-69-EA-0-0.5

Sampled: 2/2/2016 10:35

Sample ID: 16B0151-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Acetophenone	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Aniline	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Benzidine	ND	0.84	mg/Kg dry	1	V-04, V-05	SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Benzo(a)anthracene	0.49	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Benzo(a)pyrene	0.45	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Benzo(b)fluoranthene	0.45	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Benzo(g,h,i)perylene	0.28	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Benzoic Acid	ND	1.3	mg/Kg dry	1	V-05, L-04	SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Bis(2-chloroethoxy)methane	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Bis(2-chloroethyl)ether	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Bis(2-chloroisopropyl)ether	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
4-Bromophenylphenylether	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Butylbenzylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Carbazole	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
4-Chloroaniline	ND	0.84	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
4-Chloro-3-methylphenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2-Chloronaphthalene	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2-Chlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
4-Chlorophenylphenylether	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Chrysene	0.59	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Dibenzofuran	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Di-n-butylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
1,2-Dichlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
1,3-Dichlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
1,4-Dichlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
3,3-Dichlorobenzidine	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2,4-Dichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Diethylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2,4-Dimethylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Dimethylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
4,6-Dinitro-2-methylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2,4-Dinitrophenol	ND	0.84	mg/Kg dry	1	L-04	SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2,4-Dinitrotoluene	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2,6-Dinitrotoluene	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Di-n-octylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Fluoranthene	0.23	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-69-EA-0-0.5

Sampled: 2/2/2016 10:35

Sample ID: 16B0151-04

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Hexachlorobutadiene	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Hexachlorocyclopentadiene	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Hexachloroethane	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Isophorone	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
1-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2-Methylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
3/4-Methylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Naphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
3-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
4-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Nitrobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2-Nitrophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
4-Nitrophenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
N-Nitrosodimethylamine	ND	0.43	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/11/16 17:50	CMR
N-Nitrosodiphenylamine	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
N-Nitrosodi-n-propylamine	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Pentachloronitrobenzene	ND	0.43	mg/Kg dry	1	V-16	SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Pentachlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Phenanthrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Phenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Pyrene	0.28	0.22	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Pyridine	ND	0.43	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/11/16 17:50	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
1,2,4-Trichlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2,4,5-Trichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
2,4,6-Trichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 17:50	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		78.4	30-130					2/11/16 17:50	
Phenol-d6		83.5	30-130					2/11/16 17:50	
Nitrobenzene-d5		75.5	30-130					2/11/16 17:50	
2-Fluorobiphenyl		78.7	30-130					2/11/16 17:50	
2,4,6-Tribromophenol		112	30-130					2/11/16 17:50	
p-Terphenyl-d14		89.7	30-130					2/11/16 17:50	

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-69-EA-0-0.5

Sampled: 2/2/2016 10:35

Sample ID: 16B0151-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2000	3.1		mg/Kg dry	1	B-07, B	SW-846 6010C	2/10/16	2/15/16 19:29	AME
Antimony	23	3.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Arsenic	13	3.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Barium	29	3.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Beryllium	ND	0.31		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Cadmium	ND	0.31		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Calcium	53000	9.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Chromium	240	0.61		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Cobalt	14	3.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Copper	200	0.61		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Iron	170000	31		mg/Kg dry	10		SW-846 6010C	2/10/16	2/16/16 16:15	AME
Lead	67	0.92		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Magnesium	2600	9.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Manganese	1200	0.61		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Mercury	0.24	0.031		mg/Kg dry	1		SW-846 7471B	2/10/16	2/12/16 10:48	SCB
Nickel	160	0.61		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Potassium	530	120		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Selenium	ND	6.1	0.94	mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Silver	ND	0.61		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Sodium	ND	120		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Thallium	ND	3.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Vanadium	39	1.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME
Zinc	72	1.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:29	AME

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-69-EA-0-0.5

Sampled: 2/2/2016 10:35

Sample ID: 16B0151-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.8		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-70-EA-0-0.5

Sampled: 2/2/2016 10:45

Sample ID: 16B0151-05

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Acrylonitrile	ND	0.0072	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Benzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Bromobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Bromochloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Bromodichloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Bromoform	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
2-Butanone (MEK)	ND	0.048	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
tert-Butyl Alcohol (TBA)	ND	0.048	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
n-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
sec-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
tert-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Carbon Disulfide	ND	0.0072	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Carbon Tetrachloride	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Chlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Chloroethane	ND	0.024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Chloroform	ND	0.0048	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
2-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
4-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Dibromomethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,2-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,3-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,4-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
trans-1,4-Dichloro-2-butene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,1-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,2-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,1-Dichloroethylene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
cis-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
trans-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
2,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,1-Dichloropropene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Diethyl Ether	ND	0.024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-70-EA-0-0.5

Sampled: 2/2/2016 10:45

Sample ID: 16B0151-05

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Ethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Hexachlorobutadiene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
2-Hexanone (MBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Isopropylbenzene (Cumene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0048	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Methylene Chloride	ND	0.024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Naphthalene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
n-Propylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Styrene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Tetrachloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Toluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,2,3-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,2,4-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,3,5-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,1,1-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,1,2-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Trichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,2,3-Trichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,2,4-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
1,3,5-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
m+p Xylene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF
o-Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 18:50	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	111	70-130	2/4/16 18:50
Toluene-d8	95.6	70-130	2/4/16 18:50
4-Bromofluorobenzene	93.0	70-130	2/4/16 18:50

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-70-EA-0-0.5

Sampled: 2/2/2016 10:45

Sample ID: 16B0151-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Aniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Benzidine	ND	0.79	mg/Kg dry	1	V-04, V-05	SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Benzo(a)anthracene	0.61	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Benzo(a)pyrene	0.70	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Benzo(b)fluoranthene	1.1	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Benzo(g,h,i)perylene	0.54	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Benzo(k)fluoranthene	0.35	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1	L-04, V-05	SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
4-Chloroaniline	ND	0.79	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
4-Chloro-3-methylphenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
4-Chlorophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Chrysene	1.1	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1	L-04	SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Fluoranthene	0.63	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-70-EA-0-0.5

Sampled: 2/2/2016 10:45

Sample ID: 16B0151-05

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Hexachlorocyclopentadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Indeno(1,2,3-cd)pyrene	0.47	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
1-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
3-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
4-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
N-Nitrosodimethylamine	ND	0.41	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/11/16 18:17	CMR
N-Nitrosodiphenylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
N-Nitrosodi-n-propylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Pentachloronitrobenzene	ND	0.41	mg/Kg dry	1	V-16	SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Phenanthrene	0.46	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Pyrene	0.79	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Pyridine	ND	0.41	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/11/16 18:17	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 18:17	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		76.0	30-130					2/11/16 18:17	
Phenol-d6		84.3	30-130					2/11/16 18:17	
Nitrobenzene-d5		76.8	30-130					2/11/16 18:17	
2-Fluorobiphenyl		91.1	30-130					2/11/16 18:17	
2,4,6-Tribromophenol		110	30-130					2/11/16 18:17	
p-Terphenyl-d14		107	30-130					2/11/16 18:17	

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-70-EA-0-0.5

Sampled: 2/2/2016 10:45

Sample ID: 16B0151-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6600	2.9		mg/Kg dry	1	B-07, B	SW-846 6010C	2/10/16	2/15/16 19:33	AME
Antimony	6.5	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Arsenic	7.4	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Barium	460	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Beryllium	ND	0.29		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Cadmium	0.63	0.29		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Calcium	34000	8.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Chromium	59	0.58		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Cobalt	9.5	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Copper	95	0.58		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Iron	51000	29		mg/Kg dry	10		SW-846 6010C	2/10/16	2/16/16 16:20	AME
Lead	99	0.87		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Magnesium	1900	8.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Manganese	1100	0.58		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Mercury	0.81	0.13		mg/Kg dry	5		SW-846 7471B	2/10/16	2/12/16 11:37	SCB
Nickel	63	0.58		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Potassium	890	120		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Selenium	2.9	5.8	0.88	mg/Kg dry	1	J	SW-846 6010C	2/10/16	2/15/16 19:33	AME
Silver	ND	0.58		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Sodium	ND	120		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Thallium	ND	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Vanadium	22	1.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME
Zinc	170	1.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 19:33	AME

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-70-EA-0-0.5

Sampled: 2/2/2016 10:45

Sample ID: 16B0151-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-71-EA-0-0.5

Sampled: 2/2/2016 11:00

Sample ID: 16B0151-06

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Acrylonitrile	ND	0.0081	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Benzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Bromobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Bromochloromethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Bromodichloromethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Bromoform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Bromomethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
2-Butanone (MEK)	ND	0.054	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
tert-Butyl Alcohol (TBA)	ND	0.054	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
n-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
sec-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
tert-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Carbon Disulfide	ND	0.0081	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Carbon Tetrachloride	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Chlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Chloroethane	ND	0.027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Chloroform	ND	0.0054	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Chloromethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
2-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
4-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Dibromomethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,2-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,3-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,4-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
trans-1,4-Dichloro-2-butene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,1-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,2-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,1-Dichloroethylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
cis-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
trans-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,3-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
2,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,1-Dichloropropene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
cis-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
trans-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Diethyl Ether	ND	0.027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-71-EA-0-0.5

Sampled: 2/2/2016 11:00

Sample ID: 16B0151-06

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,4-Dioxane	ND	0.14	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Ethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Hexachlorobutadiene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
2-Hexanone (MBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Isopropylbenzene (Cumene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0054	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Methylene Chloride	ND	0.027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Naphthalene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
n-Propylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Styrene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,1,1,2-Tetrachloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Tetrachloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Tetrahydrofuran	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Toluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,2,3-Trichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,2,4-Trichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,3,5-Trichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,1,1-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,1,2-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Trichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,2,3-Trichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,2,4-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
1,3,5-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
Vinyl Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
m+p Xylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF
o-Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	113	70-130	2/4/16 19:17
Toluene-d8	96.2	70-130	2/4/16 19:17
4-Bromofluorobenzene	92.6	70-130	2/4/16 19:17

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-71-EA-0-0.5

Sampled: 2/2/2016 11:00

Sample ID: 16B0151-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Acenaphthylene	ND	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Acetophenone	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Aniline	ND	0.48	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Anthracene	0.26	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Benzidine	ND	0.93	mg/Kg dry	1	V-04, V-05	SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Benzo(a)anthracene	1.5	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Benzo(a)pyrene	1.7	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Benzo(b)fluoranthene	2.7	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Benzo(g,h,i)perylene	1.2	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Benzo(k)fluoranthene	1.0	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Benzoic Acid	ND	1.4	mg/Kg dry	1	L-04	SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Bis(2-chloroethoxy)methane	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Bis(2-chloroethyl)ether	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Bis(2-chloroisopropyl)ether	ND	0.48	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
4-Bromophenylphenylether	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Butylbenzylphthalate	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Carbazole	ND	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
4-Chloroaniline	ND	0.93	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
4-Chloro-3-methylphenol	ND	0.93	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2-Chloronaphthalene	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2-Chlorophenol	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
4-Chlorophenylphenylether	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Chrysene	1.7	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Dibenz(a,h)anthracene	0.36	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Dibenzofuran	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Di-n-butylphthalate	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
1,2-Dichlorobenzene	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
1,3-Dichlorobenzene	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
1,4-Dichlorobenzene	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
3,3-Dichlorobenzidine	ND	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2,4-Dichlorophenol	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Diethylphthalate	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2,4-Dimethylphenol	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Dimethylphthalate	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
4,6-Dinitro-2-methylphenol	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2,4-Dinitrophenol	ND	0.93	mg/Kg dry	1	L-04	SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2,4-Dinitrotoluene	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2,6-Dinitrotoluene	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Di-n-octylphthalate	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.48	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Fluoranthene	2.5	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Fluorene	ND	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-71-EA-0-0.5

Sampled: 2/2/2016 11:00

Sample ID: 16B0151-06

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Hexachlorobutadiene	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Hexachlorocyclopentadiene	ND	0.48	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Hexachloroethane	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Indeno(1,2,3-cd)pyrene	1.3	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Isophorone	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
1-Methylnaphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2-Methylnaphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2-Methylphenol	ND	0.48	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/12/16 20:47	CMR
3/4-Methylphenol	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Naphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2-Nitroaniline	ND	0.48	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/12/16 20:47	CMR
3-Nitroaniline	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
4-Nitroaniline	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Nitrobenzene	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2-Nitrophenol	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
4-Nitrophenol	ND	0.93	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
N-Nitrosodimethylamine	ND	0.48	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/12/16 20:47	CMR
N-Nitrosodiphenylamine	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
N-Nitrosodi-n-propylamine	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Pentachloronitrobenzene	ND	0.48	mg/Kg dry	1	V-16	SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Pentachlorophenol	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Phenanthrene	1.4	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Phenol	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Pyrene	2.5	0.24	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Pyridine	ND	0.48	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/12/16 20:47	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
1,2,4-Trichlorobenzene	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2,4,5-Trichlorophenol	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
2,4,6-Trichlorophenol	ND	0.48	mg/Kg dry	1		SW-846 8270D	2/10/16	2/12/16 20:47	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		51.8	30-130					2/12/16 20:47	
Phenol-d6		57.5	30-130					2/12/16 20:47	
Nitrobenzene-d5		53.7	30-130					2/12/16 20:47	
2-Fluorobiphenyl		66.8	30-130					2/12/16 20:47	
2,4,6-Tribromophenol		76.8	30-130					2/12/16 20:47	
p-Terphenyl-d14		72.6	30-130					2/12/16 20:47	

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-71-EA-0-0.5

Sampled: 2/2/2016 11:00

Sample ID: 16B0151-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5900	3.5		mg/Kg dry	1	B-07, B	SW-846 6010C	2/10/16	2/15/16 20:05	AME
Antimony	6.0	3.5		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Arsenic	9.9	3.5		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Barium	86	3.5		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Beryllium	ND	0.35		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Cadmium	1.1	0.35		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Calcium	38000	11		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Chromium	35	0.70		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Cobalt	7.8	3.5		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Copper	420	0.70		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Iron	40000	35		mg/Kg dry	10		SW-846 6010C	2/10/16	2/16/16 16:25	AME
Lead	310	1.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Magnesium	3000	11		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Manganese	650	0.70		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Mercury	0.84	0.17		mg/Kg dry	5		SW-846 7471B	2/10/16	2/12/16 11:39	SCB
Nickel	26	0.70		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Potassium	1400	140		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Selenium	4.3	7.0	1.1	mg/Kg dry	1	J	SW-846 6010C	2/10/16	2/15/16 20:05	AME
Silver	ND	0.70		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Sodium	150	140		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Thallium	ND	3.5		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Vanadium	29	1.4		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME
Zinc	390	1.4		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:05	AME

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-71-EA-0-0.5

Sampled: 2/2/2016 11:00

Sample ID: 16B0151-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.0		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-72-EA-0-0.5

Sampled: 2/2/2016 11:10

Sample ID: 16B0151-07

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Acrylonitrile	ND	0.0076	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Benzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Bromobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Bromochloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Bromodichloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Bromoform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Bromomethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
2-Butanone (MEK)	ND	0.051	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
tert-Butyl Alcohol (TBA)	ND	0.051	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
n-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
sec-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
tert-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Carbon Disulfide	ND	0.0076	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Carbon Tetrachloride	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Chlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Chloroethane	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Chloroform	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Chloromethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
2-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
4-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Dibromomethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,2-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,3-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,4-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
trans-1,4-Dichloro-2-butene	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,1-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,2-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,1-Dichloroethylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
cis-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
trans-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,3-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
2,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,1-Dichloropropene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
cis-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
trans-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Diethyl Ether	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-72-EA-0-0.5

Sampled: 2/2/2016 11:10

Sample ID: 16B0151-07

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,4-Dioxane	ND	0.13	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Ethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Hexachlorobutadiene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
2-Hexanone (MBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Isopropylbenzene (Cumene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Methylene Chloride	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Naphthalene	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
n-Propylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Styrene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,1,1,2-Tetrachloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Tetrachloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Tetrahydrofuran	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Toluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,2,3-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,2,4-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,3,5-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,1,1-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,1,2-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Trichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,2,3-Trichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,2,4-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
1,3,5-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
Vinyl Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
m+p Xylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF
o-Xylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 19:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	112	70-130	2/4/16 19:45
Toluene-d8	97.7	70-130	2/4/16 19:45
4-Bromofluorobenzene	92.1	70-130	2/4/16 19:45

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-72-EA-0-0.5

Sampled: 2/2/2016 11:10

Sample ID: 16B0151-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Acenaphthylene	ND	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Acetophenone	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Aniline	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Anthracene	ND	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Benzidine	ND	0.90	mg/Kg dry	1	V-04, V-05	SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Benzo(a)anthracene	0.36	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Benzo(a)pyrene	0.43	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Benzo(b)fluoranthene	0.73	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Benzo(g,h,i)perylene	0.35	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Benzo(k)fluoranthene	0.26	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Benzoic Acid	ND	1.4	mg/Kg dry	1	L-04, V-20	SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Bis(2-chloroethoxy)methane	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Bis(2-chloroethyl)ether	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Bis(2-chloroisopropyl)ether	ND	0.46	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
4-Bromophenylphenylether	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Butylbenzylphthalate	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Carbazole	ND	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
4-Chloroaniline	ND	0.90	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
4-Chloro-3-methylphenol	ND	0.90	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2-Chloronaphthalene	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2-Chlorophenol	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
4-Chlorophenylphenylether	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Chrysene	0.56	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Dibenz(a,h)anthracene	ND	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Dibenzofuran	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Di-n-butylphthalate	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
1,2-Dichlorobenzene	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
1,3-Dichlorobenzene	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
1,4-Dichlorobenzene	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
3,3-Dichlorobenzidine	ND	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2,4-Dichlorophenol	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Diethylphthalate	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2,4-Dimethylphenol	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Dimethylphthalate	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
4,6-Dinitro-2-methylphenol	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2,4-Dinitrophenol	ND	0.90	mg/Kg dry	1	L-04	SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2,4-Dinitrotoluene	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2,6-Dinitrotoluene	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Di-n-octylphthalate	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Fluoranthene	1.1	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Fluorene	ND	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-72-EA-0-0.5

Sampled: 2/2/2016 11:10

Sample ID: 16B0151-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Hexachlorobutadiene	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Hexachlorocyclopentadiene	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Hexachloroethane	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Indeno(1,2,3-cd)pyrene	0.34	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Isophorone	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
1-Methylnaphthalene	ND	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2-Methylnaphthalene	ND	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2-Methylphenol	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
3/4-Methylphenol	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Naphthalene	ND	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2-Nitroaniline	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
3-Nitroaniline	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
4-Nitroaniline	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Nitrobenzene	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2-Nitrophenol	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
4-Nitrophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
N-Nitrosodimethylamine	ND	0.46	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/13/16 11:00	CMR
N-Nitrosodiphenylamine	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
N-Nitrosodi-n-propylamine	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Pentachloronitrobenzene	ND	0.46	mg/Kg dry	1	V-16	SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Pentachlorophenol	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Phenanthrene	0.79	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Phenol	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Pyrene	1.0	0.23	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Pyridine	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
1,2,4-Trichlorobenzene	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2,4,5-Trichlorophenol	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
2,4,6-Trichlorophenol	ND	0.46	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:00	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		44.8	30-130					2/13/16 11:00	
Phenol-d6		45.8	30-130					2/13/16 11:00	
Nitrobenzene-d5		42.9	30-130					2/13/16 11:00	
2-Fluorobiphenyl		50.0	30-130					2/13/16 11:00	
2,4,6-Tribromophenol		51.8	30-130					2/13/16 11:00	
p-Terphenyl-d14		53.4	30-130					2/13/16 11:00	

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-72-EA-0-0.5

Sampled: 2/2/2016 11:10

Sample ID: 16B0151-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	8200	3.2		mg/Kg dry	1	B-07, B	SW-846 6010C	2/10/16	2/15/16 20:09	AME
Antimony	5.9	3.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Arsenic	7.1	3.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Barium	75	3.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Beryllium	0.33	0.32		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Cadmium	0.70	0.32		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Calcium	65000	95		mg/Kg dry	10		SW-846 6010C	2/10/16	2/16/16 16:30	AME
Chromium	18	0.63		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Cobalt	7.7	3.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Copper	65	0.63		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Iron	43000	32		mg/Kg dry	10		SW-846 6010C	2/10/16	2/16/16 16:30	AME
Lead	320	0.95		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Magnesium	4200	9.5		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Manganese	470	0.63		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Mercury	2.3	0.68		mg/Kg dry	20		SW-846 7471B	2/10/16	2/12/16 11:40	SCB
Nickel	25	0.63		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Potassium	880	130		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Selenium	ND	6.3	0.97	mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Silver	ND	0.63		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Sodium	260	130		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Thallium	ND	3.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Vanadium	25	1.3		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME
Zinc	260	1.3		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:09	AME

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-72-EA-0-0.5

Sampled: 2/2/2016 11:10

Sample ID: 16B0151-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.2		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-73-EA-0-0.5

Sampled: 2/2/2016 11:20

Sample ID: 16B0151-08

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Acrylonitrile	ND	0.0074	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Benzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Bromobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Bromochloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Bromodichloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Bromoform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
2-Butanone (MEK)	ND	0.049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
tert-Butyl Alcohol (TBA)	ND	0.049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
n-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
sec-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
tert-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Carbon Disulfide	ND	0.0074	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Carbon Tetrachloride	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Chlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Chloroethane	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Chloroform	ND	0.0049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
2-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
4-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Dibromomethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,2-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,3-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,4-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
trans-1,4-Dichloro-2-butene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,1-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,2-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,1-Dichloroethylene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
cis-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
trans-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
2,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,1-Dichloropropene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Diethyl Ether	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-73-EA-0-0.5

Sampled: 2/2/2016 11:20

Sample ID: 16B0151-08

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Ethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Hexachlorobutadiene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
2-Hexanone (MBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Isopropylbenzene (Cumene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Methylene Chloride	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Naphthalene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
n-Propylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Styrene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,1,1,2-Tetrachloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Tetrachloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Toluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,2,3-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,2,4-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,3,5-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,1,1-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,1,2-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Trichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,2,3-Trichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,2,4-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
1,3,5-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
m+p Xylene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF
o-Xylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/4/16	2/4/16 20:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	113	70-130	2/4/16 20:12
Toluene-d8	96.2	70-130	2/4/16 20:12
4-Bromofluorobenzene	90.0	70-130	2/4/16 20:12

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-73-EA-0-0.5

Sampled: 2/2/2016 11:20

Sample ID: 16B0151-08

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Acenaphthylene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Acetophenone	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Aniline	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Anthracene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Benzidine	ND	3.8	mg/Kg dry	2	V-04, V-05	SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Benzo(a)anthracene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Benzo(a)pyrene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Benzo(b)fluoranthene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Benzo(g,h,i)perylene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Benzo(k)fluoranthene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Benzoic Acid	ND	5.8	mg/Kg dry	2	L-04, V-05	SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Bis(2-chloroethoxy)methane	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Bis(2-chloroethyl)ether	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Bis(2-chloroisopropyl)ether	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Bis(2-Ethylhexyl)phthalate	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
4-Bromophenylphenylether	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Butylbenzylphthalate	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Carbazole	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
4-Chloroaniline	ND	3.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
4-Chloro-3-methylphenol	ND	3.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2-Chloronaphthalene	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2-Chlorophenol	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
4-Chlorophenylphenylether	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Chrysene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Dibenz(a,h)anthracene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Dibenzofuran	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Di-n-butylphthalate	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
1,2-Dichlorobenzene	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
1,3-Dichlorobenzene	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
1,4-Dichlorobenzene	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
3,3-Dichlorobenzidine	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2,4-Dichlorophenol	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Diethylphthalate	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2,4-Dimethylphenol	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Dimethylphthalate	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
4,6-Dinitro-2-methylphenol	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2,4-Dinitrophenol	ND	3.8	mg/Kg dry	2	L-04	SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2,4-Dinitrotoluene	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2,6-Dinitrotoluene	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Di-n-octylphthalate	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Fluoranthene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Fluorene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-73-EA-0-0.5

Sampled: 2/2/2016 11:20

Sample ID: 16B0151-08

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Hexachlorobutadiene	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Hexachlorocyclopentadiene	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Hexachloroethane	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Indeno(1,2,3-cd)pyrene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Isophorone	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
1-Methylnaphthalene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2-Methylnaphthalene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2-Methylphenol	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
3/4-Methylphenol	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Naphthalene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2-Nitroaniline	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
3-Nitroaniline	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
4-Nitroaniline	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Nitrobenzene	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2-Nitrophenol	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
4-Nitrophenol	ND	3.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
N-Nitrosodimethylamine	ND	2.0	mg/Kg dry	2	V-05	SW-846 8270D	2/10/16	2/11/16 19:36	CMR
N-Nitrosodiphenylamine	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
N-Nitrosodi-n-propylamine	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Pentachloronitrobenzene	ND	2.0	mg/Kg dry	2	V-16	SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Pentachlorophenol	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Phenanthrene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Phenol	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Pyrene	ND	0.99	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
Pyridine	ND	2.0	mg/Kg dry	2	V-05	SW-846 8270D	2/10/16	2/11/16 19:36	CMR
1,2,4,5-Tetrachlorobenzene	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
1,2,4-Trichlorobenzene	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2,4,5-Trichlorophenol	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR
2,4,6-Trichlorophenol	ND	2.0	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 19:36	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	75.4	30-130	
Phenol-d6	77.8	30-130	
Nitrobenzene-d5	74.0	30-130	
2-Fluorobiphenyl	87.2	30-130	
2,4,6-Tribromophenol	100	30-130	
p-Terphenyl-d14	103	30-130	

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-73-EA-0-0.5

Sampled: 2/2/2016 11:20

Sample ID: 16B0151-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5500	3.3		mg/Kg dry	1	B-07, B	SW-846 6010C	2/10/16	2/15/16 20:14	AME
Antimony	ND	3.3		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Arsenic	ND	3.3		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Barium	99	3.3		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Beryllium	ND	0.33		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Cadmium	0.39	0.33		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Calcium	19000	10		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Chromium	14	0.66		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Cobalt	ND	3.3		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Copper	13	0.66		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Iron	7300	3.3		mg/Kg dry	1		SW-846 6010C	2/10/16	2/16/16 17:46	AME
Lead	1000	1.0		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Magnesium	3800	10		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Manganese	160	0.66		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Mercury	0.47	0.032		mg/Kg dry	1		SW-846 7471B	2/10/16	2/12/16 10:57	SCB
Nickel	6.1	0.66		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Potassium	620	130		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Selenium	ND	6.6	1.0	mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Silver	ND	0.66		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Sodium	650	130		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Thallium	ND	3.3		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Vanadium	18	1.3		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME
Zinc	94	1.3		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:14	AME

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-73-EA-0-0.5

Sampled: 2/2/2016 11:20

Sample ID: 16B0151-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.9		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-74-EA-0-0.5

Sampled: 2/2/2016 11:40

Sample ID: 16B0151-09

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Acrylonitrile	ND	0.0075	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Benzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Bromobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Bromochloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Bromodichloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Bromoform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Bromomethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
2-Butanone (MEK)	ND	0.050	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
tert-Butyl Alcohol (TBA)	ND	0.050	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
n-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
sec-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
tert-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Carbon Disulfide	ND	0.0075	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Carbon Tetrachloride	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Chlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Chloroethane	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Chloroform	ND	0.0050	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Chloromethane	ND	0.013	mg/Kg dry	1	L-04	SW-846 8260C	2/5/16	2/5/16 9:28	MFF
2-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
4-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Dibromomethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,2-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,3-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,4-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
trans-1,4-Dichloro-2-butene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,1-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,2-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,1-Dichloroethylene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
cis-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
trans-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,3-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
2,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,1-Dichloropropene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
cis-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
trans-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Diethyl Ether	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-74-EA-0-0.5

Sampled: 2/2/2016 11:40

Sample ID: 16B0151-09

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,4-Dioxane	ND	0.13	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Ethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Hexachlorobutadiene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
2-Hexanone (MBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Isopropylbenzene (Cumene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Methylene Chloride	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Naphthalene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
n-Propylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Styrene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,1,1,2-Tetrachloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Tetrachloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Tetrahydrofuran	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Toluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,2,3-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,2,4-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,3,5-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,1,1-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,1,2-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Trichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,2,3-Trichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,2,4-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
1,3,5-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
Vinyl Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
m+p Xylene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF
o-Xylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 9:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	80.0	70-130	2/5/16 9:28
Toluene-d8	95.2	70-130	2/5/16 9:28
4-Bromofluorobenzene	93.8	70-130	2/5/16 9:28

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-74-EA-0-0.5

Sampled: 2/2/2016 11:40

Sample ID: 16B0151-09

Sample Matrix: Soil

Sample Flags: RL-11

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	3.4	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Acenaphthylene	ND	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Acetophenone	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Aniline	ND	4.4	mg/Kg dry	10	V-05	SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Anthracene	11	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Benzidine	ND	8.5	mg/Kg dry	10	V-04, V-05	SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Benzo(a)anthracene	30	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Benzo(a)pyrene	20	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Benzo(b)fluoranthene	28	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Benzo(g,h,i)perylene	8.2	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Benzo(k)fluoranthene	11	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Benzoic Acid	ND	13	mg/Kg dry	10	L-04	SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Bis(2-chloroethoxy)methane	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Bis(2-chloroethyl)ether	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Bis(2-chloroisopropyl)ether	ND	4.4	mg/Kg dry	10	V-05	SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Bis(2-Ethylhexyl)phthalate	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
4-Bromophenylphenylether	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Butylbenzylphthalate	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Carbazole	9.6	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
4-Chloroaniline	ND	8.5	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
4-Chloro-3-methylphenol	ND	8.5	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2-Chloronaphthalene	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2-Chlorophenol	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
4-Chlorophenylphenylether	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Chrysene	28	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Dibenz(a,h)anthracene	2.7	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Dibenzofuran	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Di-n-butylphthalate	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
1,2-Dichlorobenzene	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
1,3-Dichlorobenzene	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
1,4-Dichlorobenzene	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
3,3-Dichlorobenzidine	ND	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2,4-Dichlorophenol	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Diethylphthalate	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2,4-Dimethylphenol	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Dimethylphthalate	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
4,6-Dinitro-2-methylphenol	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2,4-Dinitrophenol	ND	8.5	mg/Kg dry	10	L-04	SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2,4-Dinitrotoluene	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2,6-Dinitrotoluene	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Di-n-octylphthalate	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	4.4	mg/Kg dry	10	V-05	SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Fluoranthene	82	8.7	mg/Kg dry	40		SW-846 8270D	2/10/16	2/13/16 11:53	CMR
Fluorene	3.9	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-74-EA-0-0.5

Sampled: 2/2/2016 11:40

Sample ID: 16B0151-09

Sample Matrix: Soil

Sample Flags: RL-11

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Hexachlorobutadiene	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Hexachlorocyclopentadiene	ND	4.4	mg/Kg dry	10	V-05	SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Hexachloroethane	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Indeno(1,2,3-cd)pyrene	10	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Isophorone	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
1-Methylnaphthalene	ND	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2-Methylnaphthalene	ND	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2-Methylphenol	ND	4.4	mg/Kg dry	10	V-05	SW-846 8270D	2/10/16	2/12/16 20:20	CMR
3/4-Methylphenol	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Naphthalene	4.3	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2-Nitroaniline	ND	4.4	mg/Kg dry	10	V-05	SW-846 8270D	2/10/16	2/12/16 20:20	CMR
3-Nitroaniline	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
4-Nitroaniline	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Nitrobenzene	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2-Nitrophenol	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
4-Nitrophenol	ND	8.5	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
N-Nitrosodimethylamine	ND	4.4	mg/Kg dry	10	V-05	SW-846 8270D	2/10/16	2/12/16 20:20	CMR
N-Nitrosodiphenylamine	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
N-Nitrosodi-n-propylamine	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Pentachloronitrobenzene	ND	4.4	mg/Kg dry	10	V-16	SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Pentachlorophenol	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Phenanthrene	50	2.2	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Phenol	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
Pyrene	66	8.7	mg/Kg dry	40		SW-846 8270D	2/10/16	2/13/16 11:53	CMR
Pyridine	ND	4.4	mg/Kg dry	10	V-05	SW-846 8270D	2/10/16	2/12/16 20:20	CMR
1,2,4,5-Tetrachlorobenzene	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
1,2,4-Trichlorobenzene	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2,4,5-Trichlorophenol	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR
2,4,6-Trichlorophenol	ND	4.4	mg/Kg dry	10		SW-846 8270D	2/10/16	2/12/16 20:20	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	61.8	30-130	
Phenol-d6	68.5	30-130	
Nitrobenzene-d5	63.6	30-130	
2-Fluorobiphenyl	64.1	30-130	
2,4,6-Tribromophenol	76.7	30-130	
p-Terphenyl-d14	76.1	30-130	

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-74-EA-0-0.5

Sampled: 2/2/2016 11:40

Sample ID: 16B0151-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5500	2.9		mg/Kg dry	1	B, B-07	SW-846 6010C	2/10/16	2/15/16 20:19	AME
Antimony	8.4	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Arsenic	13	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Barium	140	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Beryllium	0.36	0.29		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Cadmium	1.5	0.29		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Calcium	97000	88		mg/Kg dry	10		SW-846 6010C	2/10/16	2/16/16 16:36	AME
Chromium	12	0.59		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Cobalt	6.6	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Copper	95	0.59		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Iron	17000	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/16/16 17:52	AME
Lead	790	0.88		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Magnesium	5400	8.8		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Manganese	230	0.59		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Mercury	3.0	0.57		mg/Kg dry	20		SW-846 7471B	2/10/16	2/12/16 11:42	SCB
Nickel	12	0.59		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Potassium	2100	120		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Selenium	ND	5.9	0.90	mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Silver	ND	0.59		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Sodium	270	120		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Thallium	ND	2.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Vanadium	21	1.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME
Zinc	470	1.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:19	AME

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-74-EA-0-0.5

Sampled: 2/2/2016 11:40

Sample ID: 16B0151-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.1		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-75-EA-0-0.5

Sampled: 2/2/2016 11:50

Sample ID: 16B0151-10

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Acrylonitrile	ND	0.0061	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
tert-Butyl Alcohol (TBA)	ND	0.041	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Carbon Disulfide	ND	0.0061	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Chloromethane	ND	0.010	mg/Kg dry	1	L-04	SW-846 8260C	2/5/16	2/5/16 11:17	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Diethyl Ether	ND	0.020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-75-EA-0-0.5

Sampled: 2/2/2016 11:50

Sample ID: 16B0151-10

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	84.9	70-130	2/5/16 11:17
Toluene-d8	95.9	70-130	2/5/16 11:17
4-Bromofluorobenzene	95.6	70-130	2/5/16 11:17

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-75-EA-0-0.5

Sampled: 2/2/2016 11:50

Sample ID: 16B0151-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Benzidine	ND	0.74	mg/Kg dry	1	V-04, V-05	SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Benzo(a)anthracene	0.41	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Benzo(a)pyrene	0.42	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Benzo(b)fluoranthene	0.60	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Benzo(g,h,i)perylene	0.29	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Benzo(k)fluoranthene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Benzoic Acid	ND	1.1	mg/Kg dry	1	L-04, V-20	SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
4-Chloroaniline	ND	0.74	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
4-Chloro-3-methylphenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Chrysene	0.60	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1	L-04	SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Fluoranthene	0.47	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-75-EA-0-0.5

Sampled: 2/2/2016 11:50

Sample ID: 16B0151-10

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Indeno(1,2,3-cd)pyrene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
1-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
N-Nitrosodimethylamine	ND	0.38	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/13/16 11:27	CMR
N-Nitrosodiphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1	V-16	SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Phenanthrene	0.19	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Pyrene	0.51	0.19	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 11:27	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	82.2	30-130	
Phenol-d6	84.9	30-130	
Nitrobenzene-d5	76.3	30-130	
2-Fluorobiphenyl	84.7	30-130	
2,4,6-Tribromophenol	108	30-130	
p-Terphenyl-d14	95.4	30-130	

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-75-EA-0-0.5

Sampled: 2/2/2016 11:50

Sample ID: 16B0151-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3100	2.7		mg/Kg dry	1	B, B-07	SW-846 6010C	2/10/16	2/15/16 20:23	AME
Antimony	3.7	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Arsenic	ND	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Barium	37	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Beryllium	ND	0.27		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Cadmium	ND	0.27		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Calcium	110000	81		mg/Kg dry	10		SW-846 6010C	2/10/16	2/17/16 9:46	AME
Chromium	6.1	0.54		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Cobalt	ND	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Copper	12	0.54		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Iron	6600	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/16/16 17:56	AME
Lead	47	0.81		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Magnesium	5600	8.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Manganese	230	0.54		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Mercury	0.024	0.024		mg/Kg dry	1		SW-846 7471B	2/10/16	2/12/16 11:00	SCB
Nickel	6.1	0.54		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Potassium	1200	110		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Selenium	ND	5.4	0.83	mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Silver	ND	0.54		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Sodium	ND	110		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Thallium	ND	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Vanadium	7.6	1.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME
Zinc	62	1.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:23	AME

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-75-EA-0-0.5

Sampled: 2/2/2016 11:50

Sample ID: 16B0151-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.2		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-76-EA-0-0.5

Sampled: 2/2/2016 12:15

Sample ID: 16B0151-11

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Acrylonitrile	ND	0.0070	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
2-Butanone (MEK)	ND	0.047	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Carbon Disulfide	ND	0.0070	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Chloroform	ND	0.0047	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Chloromethane	ND	0.012	mg/Kg dry	1	L-04	SW-846 8260C	2/5/16	2/5/16 11:45	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
trans-1,4-Dichloro-2-butene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,1-Dichloroethylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Diethyl Ether	ND	0.023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-76-EA-0-0.5

Sampled: 2/2/2016 12:15

Sample ID: 16B0151-11

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Naphthalene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,3,5-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
m+p Xylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 11:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	86.2	70-130	2/5/16 11:45
Toluene-d8	96.1	70-130	2/5/16 11:45
4-Bromofluorobenzene	92.2	70-130	2/5/16 11:45

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-76-EA-0-0.5

Sampled: 2/2/2016 12:15

Sample ID: 16B0151-11

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Aniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Benzidine	ND	0.80	mg/Kg dry	1	V-04, V-05	SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Benzo(a)anthracene	0.27	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Benzo(a)pyrene	0.24	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Benzo(b)fluoranthene	0.48	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1	L-04, V-05	SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
4-Chloroaniline	ND	0.80	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
4-Chloro-3-methylphenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
4-Chlorophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Chrysene	0.47	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2,4-Dinitrophenol	ND	0.80	mg/Kg dry	1	L-04	SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Fluoranthene	0.48	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-76-EA-0-0.5

Sampled: 2/2/2016 12:15

Sample ID: 16B0151-11

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Hexachlorocyclopentadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Indeno(1,2,3-cd)pyrene	0.21	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
1-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2-Methylnaphthalene	0.26	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Naphthalene	0.44	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
3-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
4-Nitroaniline	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
4-Nitrophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
N-Nitrosodimethylamine	ND	0.41	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/11/16 20:54	CMR
N-Nitrosodiphenylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
N-Nitrosodi-n-propylamine	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Pentachloronitrobenzene	ND	0.41	mg/Kg dry	1	V-16	SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Phenanthrene	0.42	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Pyrene	0.55	0.21	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Pyridine	ND	0.41	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/11/16 20:54	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	2/10/16	2/11/16 20:54	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		72.8	30-130					2/11/16 20:54	
Phenol-d6		75.4	30-130					2/11/16 20:54	
Nitrobenzene-d5		72.3	30-130					2/11/16 20:54	
2-Fluorobiphenyl		80.0	30-130					2/11/16 20:54	
2,4,6-Tribromophenol		96.8	30-130					2/11/16 20:54	
p-Terphenyl-d14		89.0	30-130					2/11/16 20:54	

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-76-EA-0-0.5

Sampled: 2/2/2016 12:15

Sample ID: 16B0151-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5100	3.0		mg/Kg dry	1	B, B-07	SW-846 6010C	2/10/16	2/15/16 20:28	AME
Antimony	ND	3.0		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Arsenic	3.2	3.0		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Barium	97	3.0		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Beryllium	ND	0.30		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Cadmium	ND	0.30		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Calcium	14000	8.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Chromium	7.5	0.59		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Cobalt	11	3.0		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Copper	84	0.59		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Iron	19000	3.0		mg/Kg dry	1		SW-846 6010C	2/10/16	2/16/16 18:33	AME
Lead	76	0.89		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Magnesium	1800	8.9		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Manganese	250	0.59		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Mercury	0.083	0.031		mg/Kg dry	1		SW-846 7471B	2/10/16	2/12/16 11:02	SCB
Nickel	18	0.59		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Potassium	870	120		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Selenium	ND	5.9	0.91	mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Silver	ND	0.59		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Sodium	ND	120		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Thallium	ND	3.0		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Vanadium	16	1.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME
Zinc	51	1.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:28	AME

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-76-EA-0-0.5

Sampled: 2/2/2016 12:15

Sample ID: 16B0151-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.3		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-77-EA-0-0.5

Sampled: 2/2/2016 12:25

Sample ID: 16B0151-12

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Acrylonitrile	ND	0.0065	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Bromochloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
2-Butanone (MEK)	ND	0.043	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
tert-Butyl Alcohol (TBA)	ND	0.043	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Carbon Disulfide	ND	0.0065	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Chloroform	ND	0.0043	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Chloromethane	ND	0.011	mg/Kg dry	1	L-04	SW-846 8260C	2/5/16	2/5/16 12:12	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,1-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Diethyl Ether	ND	0.022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-77-EA-0-0.5

Sampled: 2/2/2016 12:25

Sample ID: 16B0151-12

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,4-Dioxane	ND	0.11	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Naphthalene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,3,5-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
m+p Xylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	86.2	70-130	2/5/16 12:12
Toluene-d8	96.0	70-130	2/5/16 12:12
4-Bromofluorobenzene	93.9	70-130	2/5/16 12:12

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-77-EA-0-0.5

Sampled: 2/2/2016 12:25

Sample ID: 16B0151-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Acetophenone	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Aniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Benzidine	ND	0.76	mg/Kg dry	1	V-04, V-05	SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Benzo(a)anthracene	0.30	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Benzo(a)pyrene	0.31	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Benzo(b)fluoranthene	0.63	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Benzo(g,h,i)perylene	0.20	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Benzo(k)fluoranthene	0.24	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Benzoic Acid	ND	1.2	mg/Kg dry	1	L-04, V-20	SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Carbazole	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
4-Chloroaniline	ND	0.76	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
4-Chloro-3-methylphenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
4-Chlorophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Chrysene	0.45	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
1,2-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
1,3-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
1,4-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
4,6-Dinitro-2-methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2,4-Dinitrophenol	ND	0.76	mg/Kg dry	1	L-04	SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Fluoranthene	0.83	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-77-EA-0-0.5

Sampled: 2/2/2016 12:25

Sample ID: 16B0151-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Hexachlorocyclopentadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Indeno(1,2,3-cd)pyrene	0.25	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
1-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
3-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
4-Nitroaniline	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
4-Nitrophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
N-Nitrosodimethylamine	ND	0.39	mg/Kg dry	1	V-05	SW-846 8270D	2/10/16	2/13/16 10:31	CMR
N-Nitrosodiphenylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
N-Nitrosodi-n-propylamine	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Pentachloronitrobenzene	ND	0.39	mg/Kg dry	1	V-16	SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Phenanthrene	0.49	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Pyrene	0.64	0.20	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	2/10/16	2/13/16 10:31	CMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		64.7	30-130					2/13/16 10:31	
Phenol-d6		71.8	30-130					2/13/16 10:31	
Nitrobenzene-d5		63.9	30-130					2/13/16 10:31	
2-Fluorobiphenyl		76.3	30-130					2/13/16 10:31	
2,4,6-Tribromophenol		83.8	30-130					2/13/16 10:31	
p-Terphenyl-d14		82.5	30-130					2/13/16 10:31	

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-77-EA-0-0.5

Sampled: 2/2/2016 12:25

Sample ID: 16B0151-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5600	2.7		mg/Kg dry	1	B, B-07	SW-846 6010C	2/10/16	2/15/16 20:33	AME
Antimony	ND	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Arsenic	ND	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Barium	45	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Beryllium	ND	0.27		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Cadmium	ND	0.27		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Calcium	78000	82		mg/Kg dry	10		SW-846 6010C	2/10/16	2/16/16 17:08	AME
Chromium	7.8	0.54		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Cobalt	4.4	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Copper	48	0.54		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Iron	15000	27		mg/Kg dry	10		SW-846 6010C	2/10/16	2/16/16 17:08	AME
Lead	47	0.82		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Magnesium	3000	8.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Manganese	270	0.54		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Mercury	0.12	0.028		mg/Kg dry	1		SW-846 7471B	2/10/16	2/12/16 11:03	SCB
Nickel	7.9	0.54		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Potassium	1100	110		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Selenium	ND	5.4	0.83	mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Silver	ND	0.54		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Sodium	ND	110		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Thallium	ND	2.7		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Vanadium	13	1.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME
Zinc	46	1.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:33	AME

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-77-EA-0-0.5

Sampled: 2/2/2016 12:25

Sample ID: 16B0151-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-DUP-EA

Sampled: 2/2/2016 00:00

Sample ID: 16B0151-13

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Acrylonitrile	ND	0.0077	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Benzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Bromobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Bromochloromethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Bromodichloromethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Bromoform	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Bromomethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
2-Butanone (MEK)	ND	0.051	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
tert-Butyl Alcohol (TBA)	ND	0.051	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
n-Butylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
sec-Butylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
tert-Butylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Carbon Disulfide	ND	0.0077	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Carbon Tetrachloride	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Chlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Chloroethane	ND	0.026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Chloroform	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Chloromethane	ND	0.013	mg/Kg dry	1	L-04	SW-846 8260C	2/5/16	2/5/16 12:39	MFF
2-Chlorotoluene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
4-Chlorotoluene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Dibromomethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,2-Dichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,3-Dichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,4-Dichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
trans-1,4-Dichloro-2-butene	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,1-Dichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,2-Dichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,1-Dichloroethylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
cis-1,2-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
trans-1,2-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,2-Dichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,3-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
2,2-Dichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,1-Dichloropropene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
cis-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
trans-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Diethyl Ether	ND	0.026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-DUP-EA

Sampled: 2/2/2016 00:00

Sample ID: 16B0151-13

Sample Matrix: Soil

Sample Flags: PR-03, PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,4-Dioxane	ND	0.13	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Ethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Hexachlorobutadiene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
2-Hexanone (MBK)	ND	0.026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Isopropylbenzene (Cumene)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Methylene Chloride	ND	0.026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Naphthalene	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
n-Propylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Styrene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Tetrachloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Tetrahydrofuran	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Toluene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,2,3-Trichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,2,4-Trichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,3,5-Trichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,1,1-Trichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,1,2-Trichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Trichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,2,3-Trichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,2,4-Trimethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
1,3,5-Trimethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
Vinyl Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
m+p Xylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF
o-Xylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	2/5/16	2/5/16 12:39	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	85.7	70-130	2/5/16 12:39
Toluene-d8	94.7	70-130	2/5/16 12:39
4-Bromofluorobenzene	92.9	70-130	2/5/16 12:39

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Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-DUP-EA

Sampled: 2/2/2016 00:00

Sample ID: 16B0151-13

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Acenaphthylene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Acetophenone	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Aniline	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Anthracene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Benzidine	ND	3.5	mg/Kg dry	2	V-05, V-04	SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Benzo(a)anthracene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Benzo(a)pyrene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Benzo(b)fluoranthene	1.2	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Benzo(g,h,i)perylene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Benzo(k)fluoranthene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Benzoic Acid	ND	5.2	mg/Kg dry	2	L-04, V-05	SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Bis(2-chloroethoxy)methane	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Bis(2-chloroethyl)ether	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Bis(2-chloroisopropyl)ether	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Bis(2-Ethylhexyl)phthalate	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
4-Bromophenylphenylether	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Butylbenzylphthalate	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Carbazole	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
4-Chloroaniline	ND	3.5	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
4-Chloro-3-methylphenol	ND	3.5	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2-Chloronaphthalene	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2-Chlorophenol	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
4-Chlorophenylphenylether	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Chrysene	0.90	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Dibenz(a,h)anthracene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Dibenzofuran	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Di-n-butylphthalate	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
1,2-Dichlorobenzene	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
1,3-Dichlorobenzene	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
1,4-Dichlorobenzene	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
3,3-Dichlorobenzidine	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2,4-Dichlorophenol	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Diethylphthalate	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2,4-Dimethylphenol	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Dimethylphthalate	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
4,6-Dinitro-2-methylphenol	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2,4-Dinitrophenol	ND	3.5	mg/Kg dry	2	L-04	SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2,4-Dinitrotoluene	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2,6-Dinitrotoluene	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Di-n-octylphthalate	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Fluoranthene	1.5	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Fluorene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-DUP-EA

Sampled: 2/2/2016 00:00

Sample ID: 16B0151-13

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Hexachlorobutadiene	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Hexachlorocyclopentadiene	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Hexachloroethane	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Indeno(1,2,3-cd)pyrene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Isophorone	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
1-Methylnaphthalene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2-Methylnaphthalene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2-Methylphenol	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
3/4-Methylphenol	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Naphthalene	ND	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2-Nitroaniline	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
3-Nitroaniline	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
4-Nitroaniline	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Nitrobenzene	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2-Nitrophenol	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
4-Nitrophenol	ND	3.5	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
N-Nitrosodimethylamine	ND	1.8	mg/Kg dry	2	V-05	SW-846 8270D	2/10/16	2/11/16 21:47	CMR
N-Nitrosodiphenylamine	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
N-Nitrosodi-n-propylamine	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Pentachloronitrobenzene	ND	1.8	mg/Kg dry	2	V-16	SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Pentachlorophenol	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Phenanthrene	1.1	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Phenol	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Pyrene	1.5	0.89	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
Pyridine	ND	1.8	mg/Kg dry	2	V-05	SW-846 8270D	2/10/16	2/11/16 21:47	CMR
1,2,4,5-Tetrachlorobenzene	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
1,2,4-Trichlorobenzene	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2,4,5-Trichlorophenol	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR
2,4,6-Trichlorophenol	ND	1.8	mg/Kg dry	2		SW-846 8270D	2/10/16	2/11/16 21:47	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	54.8	30-130	2/11/16 21:47
Phenol-d6	60.4	30-130	2/11/16 21:47
Nitrobenzene-d5	52.5	30-130	2/11/16 21:47
2-Fluorobiphenyl	68.4	30-130	2/11/16 21:47
2,4,6-Tribromophenol	68.6	30-130	2/11/16 21:47
p-Terphenyl-d14	81.2	30-130	2/11/16 21:47

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-DUP-EA

Sampled: 2/2/2016 00:00

Sample ID: 16B0151-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7800	3.0		mg/Kg dry	1	B, B-07	SW-846 6010C	2/10/16	2/15/16 20:38	AME
Antimony	ND	3.0		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Arsenic	ND	3.0		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Barium	65	3.0		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Beryllium	ND	0.30		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Cadmium	0.59	0.30		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Calcium	73000	91		mg/Kg dry	10		SW-846 6010C	2/10/16	2/16/16 17:13	AME
Chromium	17	0.60		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Cobalt	5.1	3.0		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Copper	48	0.60		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Iron	26000	30		mg/Kg dry	10		SW-846 6010C	2/10/16	2/16/16 17:13	AME
Lead	270	0.91		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Magnesium	4800	9.1		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Manganese	450	0.60		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Mercury	2.2	0.61		mg/Kg dry	20		SW-846 7471B	2/10/16	2/12/16 11:43	SCB
Nickel	20	0.60		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Potassium	980	120		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Selenium	ND	6.0	0.92	mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Silver	ND	0.60		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Sodium	230	120		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Thallium	ND	3.0		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Vanadium	21	1.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME
Zinc	220	1.2		mg/Kg dry	1		SW-846 6010C	2/10/16	2/15/16 20:38	AME

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: SS-DUP-EA

Sampled: 2/2/2016 00:00

Sample ID: 16B0151-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.2		% Wt	1		SM 2540G	2/11/16	2/12/16 10:20	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: RB-020216

Sampled: 2/2/2016 12:00

Sample ID: 16B0151-14

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: RB-020216

Sampled: 2/2/2016 12:00

Sample ID: 16B0151-14

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	116	70-130	2/15/16 15:02
Toluene-d8	99.0	70-130	2/15/16 15:02
4-Bromofluorobenzene	100	70-130	2/15/16 15:02

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: RB-020216

Sampled: 2/2/2016 12:00

Sample ID: 16B0151-14

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Acetophenone	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Aniline	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Anthracene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Benzidine	ND	20	µg/L	1	V-04, V-05, L-04, R-05	SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Benzoic Acid	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Bis(2-Ethylhexyl)phthalate	ND	2.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Carbazole	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Chrysene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
1,2-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
1,3-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
1,4-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2,4-Dimethylphenol	ND	10	µg/L	1	R-05	SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: RB-020216

Sampled: 2/2/2016 12:00

Sample ID: 16B0151-14

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-19	SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Isophorone	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
1-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
N-Nitrosodimethylamine	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Phenol	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Pyrene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	2/4/16	2/6/16 12:39	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	46.9	15-110	
Phenol-d6	30.5	15-110	
Nitrobenzene-d5	96.3	30-130	
2-Fluorobiphenyl	105	30-130	
2,4,6-Tribromophenol	110	15-110	
p-Terphenyl-d14	112	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: RB-020216

Sampled: 2/2/2016 12:00

Sample ID: 16B0151-14

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Antimony	ND	0.050		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Arsenic	ND	0.010		mg/L	1		SW-846 6010C	2/4/16	2/11/16 18:20	AME
Barium	ND	0.050		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Beryllium	ND	0.0040	0.0010	mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Cadmium	ND	0.0040		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Calcium	ND	0.15		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Chromium	ND	0.010		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Cobalt	ND	0.050		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Copper	ND	0.010		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Iron	0.18	0.050		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Lead	ND	0.010		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Magnesium	ND	0.15		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Manganese	ND	0.010		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Mercury	ND	0.00010		mg/L	1		SW-846 7470A	2/4/16	2/8/16 13:10	SCB
Nickel	ND	0.010		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Potassium	ND	2.0		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Selenium	ND	0.050		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Silver	ND	0.0050		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Sodium	ND	2.0		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Thallium	ND	0.050		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Vanadium	ND	0.010		mg/L	1		SW-846 6010C	2/4/16	2/9/16 18:33	AME
Zinc	ND	0.020		mg/L	1		SW-846 6010C	2/4/16	2/11/16 18:20	AME

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: TB-020216

Sampled: 2/2/2016 12:10

Sample ID: 16B0151-15

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sewall's Island

Sample Description:

Work Order: 16B0151

Date Received: 2/3/2016

Field Sample #: TB-020216

Sampled: 2/2/2016 12:10

Sample ID: 16B0151-15

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/15/16	2/15/16 15:29	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	118	70-130	2/15/16 15:29
Toluene-d8	98.7	70-130	2/15/16 15:29
4-Bromofluorobenzene	98.0	70-130	2/15/16 15:29

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
16B0151-01 [SS-66-EA-0-0.5]	B141986	02/11/16
16B0151-02 [SS-67-EA-0-0.5]	B141986	02/11/16
16B0151-03 [SS-68-EA-0-0.5]	B141986	02/11/16
16B0151-04 [SS-69-EA-0-0.5]	B141986	02/11/16
16B0151-05 [SS-70-EA-0-0.5]	B141986	02/11/16
16B0151-06 [SS-71-EA-0-0.5]	B141986	02/11/16
16B0151-07 [SS-72-EA-0-0.5]	B141986	02/11/16
16B0151-08 [SS-73-EA-0-0.5]	B141986	02/11/16
16B0151-09 [SS-74-EA-0-0.5]	B141986	02/11/16
16B0151-10 [SS-75-EA-0-0.5]	B141986	02/11/16
16B0151-11 [SS-76-EA-0-0.5]	B141986	02/11/16
16B0151-12 [SS-77-EA-0-0.5]	B141986	02/11/16
16B0151-13 [SS-DUP-EA]	B141986	02/11/16

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16B0151-01 [SS-66-EA-0-0.5]	B141851	1.02	50.0	02/10/16
16B0151-01 [SS-66-EA-0-0.5]	B141851	1.02	50.0	02/10/16
16B0151-02 [SS-67-EA-0-0.5]	B141851	1.08	50.0	02/10/16
16B0151-02 [SS-67-EA-0-0.5]	B141851	1.08	50.0	02/10/16
16B0151-03 [SS-68-EA-0-0.5]	B141851	1.03	50.0	02/10/16
16B0151-03 [SS-68-EA-0-0.5]	B141851	1.03	50.0	02/10/16
16B0151-04 [SS-69-EA-0-0.5]	B141851	1.04	50.0	02/10/16
16B0151-04 [SS-69-EA-0-0.5]	B141851	1.04	50.0	02/10/16
16B0151-05 [SS-70-EA-0-0.5]	B141851	1.04	50.0	02/10/16
16B0151-05 [SS-70-EA-0-0.5]	B141851	1.04	50.0	02/10/16
16B0151-06 [SS-71-EA-0-0.5]	B141851	1.00	50.0	02/10/16
16B0151-06 [SS-71-EA-0-0.5]	B141851	1.00	50.0	02/10/16
16B0151-07 [SS-72-EA-0-0.5]	B141851	1.08	50.0	02/10/16
16B0151-07 [SS-72-EA-0-0.5]	B141851	1.08	50.0	02/10/16
16B0151-08 [SS-73-EA-0-0.5]	B141851	1.09	50.0	02/10/16
16B0151-08 [SS-73-EA-0-0.5]	B141851	1.09	50.0	02/10/16
16B0151-09 [SS-74-EA-0-0.5]	B141851	1.09	50.0	02/10/16
16B0151-09 [SS-74-EA-0-0.5]	B141851	1.09	50.0	02/10/16
16B0151-10 [SS-75-EA-0-0.5]	B141851	1.04	50.0	02/10/16
16B0151-10 [SS-75-EA-0-0.5]	B141851	1.04	50.0	02/10/16
16B0151-11 [SS-76-EA-0-0.5]	B141851	1.03	50.0	02/10/16
16B0151-11 [SS-76-EA-0-0.5]	B141851	1.03	50.0	02/10/16
16B0151-12 [SS-77-EA-0-0.5]	B141851	1.06	50.0	02/10/16
16B0151-12 [SS-77-EA-0-0.5]	B141851	1.06	50.0	02/10/16
16B0151-13 [SS-DUP-EA]	B141851	1.09	50.0	02/10/16
16B0151-13 [SS-DUP-EA]	B141851	1.09	50.0	02/10/16

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16B0151-14 [RB-020216]	B141465	50.0	50.0	02/04/16

Sample Extraction Data

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16B0151-14 [RB-020216]	B141478	6.00	6.00	02/04/16

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16B0151-01 [SS-66-EA-0-0.5]	B141852	0.637	50.0	02/10/16
16B0151-02 [SS-67-EA-0-0.5]	B141852	0.657	50.0	02/10/16
16B0151-03 [SS-68-EA-0-0.5]	B141852	0.597	50.0	02/10/16
16B0151-04 [SS-69-EA-0-0.5]	B141852	0.612	50.0	02/10/16
16B0151-05 [SS-70-EA-0-0.5]	B141852	0.677	50.0	02/10/16
16B0151-06 [SS-71-EA-0-0.5]	B141852	0.623	50.0	02/10/16
16B0151-07 [SS-72-EA-0-0.5]	B141852	0.604	50.0	02/10/16
16B0151-08 [SS-73-EA-0-0.5]	B141852	0.673	50.0	02/10/16
16B0151-09 [SS-74-EA-0-0.5]	B141852	0.676	50.0	02/10/16
16B0151-10 [SS-75-EA-0-0.5]	B141852	0.689	50.0	02/10/16
16B0151-11 [SS-76-EA-0-0.5]	B141852	0.594	50.0	02/10/16
16B0151-12 [SS-77-EA-0-0.5]	B141852	0.616	50.0	02/10/16
16B0151-13 [SS-DUP-EA]	B141852	0.645	50.0	02/10/16

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16B0151-02 [SS-67-EA-0-0.5]	B141471	5.60	10.0	02/04/16
16B0151-03 [SS-68-EA-0-0.5]	B141471	5.30	10.0	02/04/16
16B0151-04 [SS-69-EA-0-0.5]	B141471	5.20	10.0	02/04/16
16B0151-05 [SS-70-EA-0-0.5]	B141471	5.00	10.0	02/04/16
16B0151-06 [SS-71-EA-0-0.5]	B141471	5.20	10.0	02/04/16
16B0151-07 [SS-72-EA-0-0.5]	B141471	5.40	10.0	02/04/16
16B0151-08 [SS-73-EA-0-0.5]	B141471	5.90	10.0	02/04/16

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16B0151-01 [SS-66-EA-0-0.5]	B141573	5.30	10.0	02/05/16
16B0151-09 [SS-74-EA-0-0.5]	B141573	5.10	10.0	02/05/16
16B0151-10 [SS-75-EA-0-0.5]	B141573	5.50	10.0	02/05/16
16B0151-11 [SS-76-EA-0-0.5]	B141573	5.20	10.0	02/05/16
16B0151-12 [SS-77-EA-0-0.5]	B141573	5.30	10.0	02/05/16
16B0151-13 [SS-DUP-EA]	B141573	5.10	10.0	02/05/16

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16B0151-14 [RB-020216]	B142153	5	5.00	02/15/16
16B0151-15 [TB-020216]	B142153	5	5.00	02/15/16

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data**Prep Method: SW-846 3546-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16B0151-01 [SS-66-EA-0-0.5]	B141804	30.0	1.00	02/10/16
16B0151-02 [SS-67-EA-0-0.5]	B141804	30.0	1.00	02/10/16
16B0151-02RE1 [SS-67-EA-0-0.5]	B141804	30.0	1.00	02/10/16
16B0151-03 [SS-68-EA-0-0.5]	B141804	30.0	1.00	02/10/16
16B0151-04 [SS-69-EA-0-0.5]	B141804	30.0	1.00	02/10/16
16B0151-05 [SS-70-EA-0-0.5]	B141804	30.1	1.00	02/10/16
16B0151-06 [SS-71-EA-0-0.5]	B141804	30.0	1.00	02/10/16
16B0151-07 [SS-72-EA-0-0.5]	B141804	30.0	1.00	02/10/16
16B0151-08 [SS-73-EA-0-0.5]	B141804	30.0	2.00	02/10/16
16B0151-09 [SS-74-EA-0-0.5]	B141804	30.0	1.00	02/10/16
16B0151-09RE1 [SS-74-EA-0-0.5]	B141804	30.0	1.00	02/10/16
16B0151-10 [SS-75-EA-0-0.5]	B141804	30.0	1.00	02/10/16
16B0151-11 [SS-76-EA-0-0.5]	B141804	30.0	1.00	02/10/16
16B0151-12 [SS-77-EA-0-0.5]	B141804	30.0	1.00	02/10/16
16B0151-13 [SS-DUP-EA]	B141804	30.0	2.00	02/10/16

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16B0151-14 [RB-020216]	B141388	1000	1.00	02/04/16

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141471 - SW-846 5035

Blank (B141471-BLK1)

Prepared & Analyzed: 02/04/16

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141471 - SW-846 5035

Blank (B141471-BLK1)

Prepared & Analyzed: 02/04/16

Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							

Surrogate: 1,2-Dichloroethane-d4	0.0485		mg/Kg wet	0.0500		96.9	70-130			
Surrogate: Toluene-d8	0.0493		mg/Kg wet	0.0500		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0487		mg/Kg wet	0.0500		97.4	70-130			

LCS (B141471-BS1)

Prepared & Analyzed: 02/04/16

Acetone	0.194	0.10	mg/Kg wet	0.200		97.1	70-160			†
Acrylonitrile	0.0201	0.0060	mg/Kg wet	0.0200		100	70-130			
tert-Amyl Methyl Ether (TAME)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130			
Benzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromochloromethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromodichloromethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromoform	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Bromomethane	0.0105	0.010	mg/Kg wet	0.0200		52.6	40-130			†
2-Butanone (MEK)	0.196	0.040	mg/Kg wet	0.200		98.0	70-160			†
tert-Butyl Alcohol (TBA)	0.178	0.040	mg/Kg wet	0.200		89.1	40-130			†
n-Butylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
sec-Butylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
tert-Butylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
Carbon Disulfide	0.0190	0.0060	mg/Kg wet	0.0200		95.1	70-130			
Carbon Tetrachloride	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Chlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Chlorodibromomethane	0.0200	0.0010	mg/Kg wet	0.0200		99.9	70-130			
Chloroethane	0.0215	0.020	mg/Kg wet	0.0200		107	70-130			
Chloroform	0.0198	0.0040	mg/Kg wet	0.0200		98.9	70-130			
Chloromethane	0.0140	0.010	mg/Kg wet	0.0200		70.1	70-130			
2-Chlorotoluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141471 - SW-846 5035										
LCS (B141471-BS1)										
Prepared & Analyzed: 02/04/16										
4-Chlorotoluene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
1,2-Dibromoethane (EDB)	0.0207	0.0010	mg/Kg wet	0.0200		103	70-130			
Dibromomethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
trans-1,4-Dichloro-2-butene	0.0171	0.0040	mg/Kg wet	0.0200		85.5	70-130			
Dichlorodifluoromethane (Freon 12)	0.0116	0.020	mg/Kg wet	0.0200		58.2	40-160			†
1,1-Dichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1-Dichloroethylene	0.0192	0.0040	mg/Kg wet	0.0200		95.8	70-130			
cis-1,2-Dichloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
trans-1,2-Dichloroethylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichloropropane	0.0196	0.0010	mg/Kg wet	0.0200		97.8	70-130			
2,2-Dichloropropane	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130			
1,1-Dichloropropene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
cis-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.3	70-130			
trans-1,3-Dichloropropene	0.0182	0.0010	mg/Kg wet	0.0200		91.2	70-130			
Diethyl Ether	0.0201	0.020	mg/Kg wet	0.0200		101	70-130			
Diisopropyl Ether (DIPE)	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
1,4-Dioxane	0.204	0.10	mg/Kg wet	0.200		102	40-160			†
Ethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Hexachlorobutadiene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-160			
2-Hexanone (MBK)	0.212	0.020	mg/Kg wet	0.200		106	70-160			†
Isopropylbenzene (Cumene)	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
p-Isopropyltoluene (p-Cymene)	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0214	0.0040	mg/Kg wet	0.0200		107	70-130			
Methylene Chloride	0.0204	0.020	mg/Kg wet	0.0200		102	40-160			†
4-Methyl-2-pentanone (MIBK)	0.201	0.020	mg/Kg wet	0.200		100	70-160			†
Naphthalene	0.0188	0.0040	mg/Kg wet	0.0200		94.2	40-130			†
n-Propylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Styrene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,1,2-Tetrachloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2,2-Tetrachloroethane	0.0220	0.0010	mg/Kg wet	0.0200		110	70-130			
Tetrachloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Tetrahydrofuran	0.0194	0.010	mg/Kg wet	0.0200		97.2	70-130			
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
1,2,3-Trichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
1,2,4-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.6	70-130			
1,3,5-Trichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130			
1,1,1-Trichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,2-Trichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Trichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Trichlorofluoromethane (Freon 11)	0.0190	0.010	mg/Kg wet	0.0200		94.8	70-130			
1,2,3-Trichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0197	0.010	mg/Kg wet	0.0200		98.7	70-130			
1,2,4-Trimethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3,5-Trimethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Vinyl Chloride	0.0172	0.010	mg/Kg wet	0.0200		85.8	40-130			†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141471 - SW-846 5035										
LCS (B141471-BS1)										
Prepared & Analyzed: 02/04/16										
m+p Xylene	0.0419	0.0040	mg/Kg wet	0.0400		105	70-130			
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0486		mg/Kg wet	0.0500		97.2	70-130			
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/Kg wet	0.0500		99.8	70-130			
LCS Dup (B141471-BSD1)										
Prepared & Analyzed: 02/04/16										
Acetone	0.188	0.10	mg/Kg wet	0.200		93.8	70-160	3.41	25	†
Acrylonitrile	0.0193	0.0060	mg/Kg wet	0.0200		96.3	70-130	4.17	25	
tert-Amyl Methyl Ether (TAME)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130	1.57	25	
Benzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.388	25	
Bromobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	1.53	25	
Bromochloromethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	1.27	25	
Bromodichloromethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.46	25	
Bromoform	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	3.25	25	
Bromomethane	0.0124	0.010	mg/Kg wet	0.0200		61.9	40-130	16.2	25	†
2-Butanone (MEK)	0.191	0.040	mg/Kg wet	0.200		95.5	70-160	2.64	25	†
tert-Butyl Alcohol (TBA)	0.184	0.040	mg/Kg wet	0.200		92.1	40-130	3.38	25	†
n-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	0.368	25	
sec-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	1.55	25	
tert-Butylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-160	1.22	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	0.941	25	
Carbon Disulfide	0.0174	0.0060	mg/Kg wet	0.0200		87.2	70-130	8.67	25	
Carbon Tetrachloride	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	2.01	25	
Chlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	2.90	25	
Chlorodibromomethane	0.0207	0.0010	mg/Kg wet	0.0200		103	70-130	3.44	25	
Chloroethane	0.0206	0.020	mg/Kg wet	0.0200		103	70-130	3.99	25	
Chloroform	0.0198	0.0040	mg/Kg wet	0.0200		98.9	70-130	0.00	25	
Chloromethane	0.0139	0.010	mg/Kg wet	0.0200		69.3	* 70-130	1.15	25	L-07
2-Chlorotoluene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	1.25	25	
4-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.78	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	6.94	25	
1,2-Dibromoethane (EDB)	0.0207	0.0010	mg/Kg wet	0.0200		103	70-130	0.00	25	
Dibromomethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	3.42	25	
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.573	25	
1,3-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	0.199	25	
1,4-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	1.22	25	
trans-1,4-Dichloro-2-butene	0.0186	0.0040	mg/Kg wet	0.0200		92.9	70-130	8.30	25	
Dichlorodifluoromethane (Freon 12)	0.0108	0.020	mg/Kg wet	0.0200		54.2	40-160	7.12	25	†
1,1-Dichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	2.33	25	
1,2-Dichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	0.295	25	
1,1-Dichloroethylene	0.0184	0.0040	mg/Kg wet	0.0200		91.8	70-130	4.26	25	
cis-1,2-Dichloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	0.206	25	
trans-1,2-Dichloroethylene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	4.43	25	
1,2-Dichloropropane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	1.54	25	
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130	2.62	25	
2,2-Dichloropropane	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130	1.41	25	
1,1-Dichloropropene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	1.73	25	
cis-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.6	70-130	0.332	25	
trans-1,3-Dichloropropene	0.0182	0.0010	mg/Kg wet	0.0200		91.0	70-130	0.220	25	
Diethyl Ether	0.0205	0.020	mg/Kg wet	0.0200		103	70-130	2.07	25	
Diisopropyl Ether (DIPE)	0.0197	0.0010	mg/Kg wet	0.0200		98.3	70-130	1.81	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141471 - SW-846 5035

LCS Dup (B141471-BSD1)

Prepared & Analyzed: 02/04/16

1,4-Dioxane	0.183	0.10	mg/Kg wet	0.200		91.4	40-160	11.1	50	† ‡
Ethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	4.18	25	
Hexachlorobutadiene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-160	0.00	25	
2-Hexanone (MBK)	0.218	0.020	mg/Kg wet	0.200		109	70-160	2.64	25	†
Isopropylbenzene (Cumene)	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	0.563	25	
p-Isopropyltoluene (p-Cymene)	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	0.0920	25	
Methyl tert-Butyl Ether (MTBE)	0.0207	0.0040	mg/Kg wet	0.0200		104	70-130	3.23	25	
Methylene Chloride	0.0199	0.020	mg/Kg wet	0.0200		99.6	40-160	2.58	25	†
4-Methyl-2-pentanone (MIBK)	0.204	0.020	mg/Kg wet	0.200		102	70-160	1.58	25	†
Naphthalene	0.0192	0.0040	mg/Kg wet	0.0200		95.8	40-130	1.68	25	†
n-Propylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	0.469	25	
Styrene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	0.372	25	
1,1,1,2-Tetrachloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	1.14	25	
1,1,2,2-Tetrachloroethane	0.0221	0.0010	mg/Kg wet	0.0200		111	70-130	0.634	25	
Tetrachloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	1.29	25	
Tetrahydrofuran	0.0200	0.010	mg/Kg wet	0.0200		100	70-130	2.84	25	
Toluene	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130	0.839	25	
1,2,3-Trichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130	1.17	25	
1,2,4-Trichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130	1.98	25	
1,3,5-Trichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	2.88	25	
1,1,1-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	4.20	25	
1,1,2-Trichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	3.16	25	
Trichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.85	25	
Trichlorofluoromethane (Freon 11)	0.0189	0.010	mg/Kg wet	0.0200		94.3	70-130	0.529	25	
1,2,3-Trichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	2.41	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0192	0.010	mg/Kg wet	0.0200		96.1	70-130	2.67	25	
1,2,4-Trimethylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	0.745	25	
1,3,5-Trimethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	0.0908	25	
Vinyl Chloride	0.0166	0.010	mg/Kg wet	0.0200		83.0	40-130	3.32	25	†
m+p Xylene	0.0406	0.0040	mg/Kg wet	0.0400		102	70-130	3.15	25	
o-Xylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.18	25	
Surrogate: 1,2-Dichloroethane-d4	0.0492		mg/Kg wet	0.0500		98.4	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		mg/Kg wet	0.0500		100	70-130			

Batch B141573 - SW-846 5035

Blank (B141573-BLK1)

Prepared & Analyzed: 02/05/16

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141573 - SW-846 5035

Blank (B141573-BLK1)

Prepared & Analyzed: 02/05/16

tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141573 - SW-846 5035										
Blank (B141573-BLK1)					Prepared & Analyzed: 02/05/16					
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0547		mg/Kg wet	0.0500		109	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0477		mg/Kg wet	0.0500		95.4	70-130			
LCS (B141573-BS1)					Prepared & Analyzed: 02/05/16					
Acetone	0.210	0.10	mg/Kg wet	0.200		105	70-160			†
Acrylonitrile	0.0205	0.0060	mg/Kg wet	0.0200		102	70-130			
tert-Amyl Methyl Ether (TAME)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130			
Benzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromochloromethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
Bromodichloromethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Bromoform	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130			
Bromomethane	0.00998	0.010	mg/Kg wet	0.0200		49.9	40-130			†
2-Butanone (MEK)	0.198	0.040	mg/Kg wet	0.200		99.1	70-160			†
tert-Butyl Alcohol (TBA)	0.178	0.040	mg/Kg wet	0.200		88.8	40-130			†
n-Butylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
sec-Butylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
tert-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0219	0.0010	mg/Kg wet	0.0200		110	70-130			
Carbon Disulfide	0.0176	0.0060	mg/Kg wet	0.0200		87.8	70-130			
Carbon Tetrachloride	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Chlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
Chlorodibromomethane	0.0203	0.0010	mg/Kg wet	0.0200		101	70-130			
Chloroethane	0.0190	0.020	mg/Kg wet	0.0200		95.1	70-130			
Chloroform	0.0211	0.0040	mg/Kg wet	0.0200		106	70-130			
Chloromethane	0.0128	0.010	mg/Kg wet	0.0200		64.2	* 70-130			L-04
2-Chlorotoluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
4-Chlorotoluene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0179	0.0020	mg/Kg wet	0.0200		89.4	70-130			
1,2-Dibromoethane (EDB)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Dibromomethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
1,3-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,4-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
trans-1,4-Dichloro-2-butene	0.0171	0.0040	mg/Kg wet	0.0200		85.5	70-130			
Dichlorodifluoromethane (Freon 12)	0.00874	0.020	mg/Kg wet	0.0200		43.7	40-160			†
1,1-Dichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichloroethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1-Dichloroethylene	0.0198	0.0040	mg/Kg wet	0.0200		99.0	70-130			
cis-1,2-Dichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
trans-1,2-Dichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141573 - SW-846 5035										
LCS (B141573-BS1)										
Prepared & Analyzed: 02/05/16										
1,2-Dichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichloropropane	0.0196	0.0010	mg/Kg wet	0.0200		98.1	70-130			
2,2-Dichloropropane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1-Dichloropropene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
cis-1,3-Dichloropropene	0.0185	0.0010	mg/Kg wet	0.0200		92.7	70-130			
trans-1,3-Dichloropropene	0.0185	0.0010	mg/Kg wet	0.0200		92.6	70-130			
Diethyl Ether	0.0205	0.020	mg/Kg wet	0.0200		102	70-130			
Diisopropyl Ether (DIPE)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
1,4-Dioxane	0.170	0.10	mg/Kg wet	0.200		84.9	40-160			†
Ethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Hexachlorobutadiene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-160			
2-Hexanone (MBK)	0.202	0.020	mg/Kg wet	0.200		101	70-160			†
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
p-Isopropyltoluene (p-Cymene)	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0213	0.0040	mg/Kg wet	0.0200		106	70-130			
Methylene Chloride	0.0188	0.020	mg/Kg wet	0.0200		93.9	40-160			†
4-Methyl-2-pentanone (MIBK)	0.202	0.020	mg/Kg wet	0.200		101	70-160			†
Naphthalene	0.0161	0.0040	mg/Kg wet	0.0200		80.3	40-130			†
n-Propylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Styrene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,1,2-Tetrachloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,2,2-Tetrachloroethane	0.0196	0.0010	mg/Kg wet	0.0200		98.2	70-130			
Tetrachloroethylene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
Tetrahydrofuran	0.0236	0.010	mg/Kg wet	0.0200		118	70-130			
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
1,2,3-Trichlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
1,2,4-Trichlorobenzene	0.0172	0.0020	mg/Kg wet	0.0200		86.0	70-130			
1,3,5-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
1,1,1-Trichloroethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,2-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Trichlorofluoromethane (Freon 11)	0.0197	0.010	mg/Kg wet	0.0200		98.5	70-130			
1,2,3-Trichloropropane	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0196	0.010	mg/Kg wet	0.0200		97.9	70-130			
1,2,4-Trimethylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3,5-Trimethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Vinyl Chloride	0.0155	0.010	mg/Kg wet	0.0200		77.4	40-130			†
m+p Xylene	0.0405	0.0040	mg/Kg wet	0.0400		101	70-130			
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0559		mg/Kg wet	0.0500		112	70-130			
Surrogate: Toluene-d8	0.0500		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/Kg wet	0.0500		99.4	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141573 - SW-846 5035										
Matrix Spike (B141573-MS1)	Source: 16B0151-01			Prepared & Analyzed: 02/05/16						
4-Chlorotoluene	0.0223	0.0023	mg/Kg dry	0.0234	ND	95.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0179	0.0023	mg/Kg dry	0.0234	ND	76.6	70-130			
1,2-Dibromoethane (EDB)	0.0229	0.0012	mg/Kg dry	0.0234	ND	97.7	70-130			
Dibromomethane	0.0230	0.0023	mg/Kg dry	0.0234	ND	98.2	70-130			
1,2-Dichlorobenzene	0.0227	0.0023	mg/Kg dry	0.0234	ND	97.0	70-130			
1,3-Dichlorobenzene	0.0226	0.0023	mg/Kg dry	0.0234	ND	96.4	70-130			
1,4-Dichlorobenzene	0.0218	0.0023	mg/Kg dry	0.0234	ND	93.1	70-130			
trans-1,4-Dichloro-2-butene	0.0180	0.0047	mg/Kg dry	0.0234	ND	77.1	70-130			
Dichlorodifluoromethane (Freon 12)	0.00784	0.023	mg/Kg dry	0.0234	ND	33.5 *	70-130			MS-09
1,1-Dichloroethane	0.0223	0.0023	mg/Kg dry	0.0234	ND	95.4	70-130			
1,2-Dichloroethane	0.0195	0.0023	mg/Kg dry	0.0234	ND	83.4	70-130			
1,1-Dichloroethylene	0.0185	0.0047	mg/Kg dry	0.0234	ND	79.2	70-130			
cis-1,2-Dichloroethylene	0.0202	0.0023	mg/Kg dry	0.0234	ND	86.4	70-130			
trans-1,2-Dichloroethylene	0.0214	0.0023	mg/Kg dry	0.0234	ND	91.5	70-130			
1,2-Dichloropropane	0.0234	0.0023	mg/Kg dry	0.0234	ND	99.8	70-130			
1,3-Dichloropropane	0.0217	0.0012	mg/Kg dry	0.0234	ND	92.7	70-130			
2,2-Dichloropropane	0.0189	0.0023	mg/Kg dry	0.0234	ND	80.9	70-130			
1,1-Dichloropropene	0.0227	0.0023	mg/Kg dry	0.0234	ND	96.9	70-130			
cis-1,3-Dichloropropene	0.0191	0.0012	mg/Kg dry	0.0234	ND	81.7	70-130			
trans-1,3-Dichloropropene	0.0185	0.0012	mg/Kg dry	0.0234	ND	79.0	70-130			
Diethyl Ether	0.0227	0.023	mg/Kg dry	0.0234	ND	96.9	70-130			
Diisopropyl Ether (DIPE)	0.0208	0.0012	mg/Kg dry	0.0234	ND	88.8	70-130			
1,4-Dioxane	0.245	0.12	mg/Kg dry	0.234	ND	105	70-130			
Ethylbenzene	0.0248	0.0023	mg/Kg dry	0.0234	ND	106	70-130			
Hexachlorobutadiene	0.0209	0.0023	mg/Kg dry	0.0234	ND	89.4	70-130			
2-Hexanone (MBK)	0.218	0.023	mg/Kg dry	0.234	ND	93.2	70-130			
Isopropylbenzene (Cumene)	0.0255	0.0023	mg/Kg dry	0.0234	ND	109	70-130			
p-Isopropyltoluene (p-Cymene)	0.0220	0.0023	mg/Kg dry	0.0234	ND	94.0	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0226	0.0047	mg/Kg dry	0.0234	ND	96.4	70-130			
Methylene Chloride	0.0239	0.023	mg/Kg dry	0.0234	ND	102	70-130			
4-Methyl-2-pentanone (MIBK)	0.211	0.023	mg/Kg dry	0.234	ND	90.3	70-130			
Naphthalene	0.0185	0.0047	mg/Kg dry	0.0234	ND	79.0	70-130			
n-Propylbenzene	0.0246	0.0023	mg/Kg dry	0.0234	ND	105	70-130			
Styrene	0.0253	0.0023	mg/Kg dry	0.0234	ND	108	70-130			
1,1,1,2-Tetrachloroethane	0.0235	0.0023	mg/Kg dry	0.0234	ND	100	70-130			
1,1,2,2-Tetrachloroethane	0.0253	0.0012	mg/Kg dry	0.0234	ND	108	70-130			
Tetrachloroethylene	0.0246	0.0023	mg/Kg dry	0.0234	ND	105	70-130			
Tetrahydrofuran	0.0230	0.012	mg/Kg dry	0.0234	ND	98.4	70-130			
Toluene	0.0218	0.0023	mg/Kg dry	0.0234	ND	93.1	70-130			
1,2,3-Trichlorobenzene	0.0183	0.0023	mg/Kg dry	0.0234	ND	78.3	70-130			
1,2,4-Trichlorobenzene	0.0192	0.0023	mg/Kg dry	0.0234	ND	82.1	70-130			
1,3,5-Trichlorobenzene	0.0221	0.0023	mg/Kg dry	0.0234	ND	94.4	70-130			
1,1,1-Trichloroethane	0.0204	0.0023	mg/Kg dry	0.0234	ND	87.0	70-130			
1,1,2-Trichloroethane	0.0241	0.0023	mg/Kg dry	0.0234	ND	103	70-130			
Trichloroethylene	0.0223	0.0023	mg/Kg dry	0.0234	ND	95.1	70-130			
Trichlorofluoromethane (Freon 11)	0.0176	0.012	mg/Kg dry	0.0234	ND	75.3	70-130			
1,2,3-Trichloropropane	0.0219	0.0023	mg/Kg dry	0.0234	ND	93.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0205	0.012	mg/Kg dry	0.0234	ND	87.8	70-130			
1,2,4-Trimethylbenzene	0.0241	0.0023	mg/Kg dry	0.0234	ND	103	70-130			
1,3,5-Trimethylbenzene	0.0253	0.0023	mg/Kg dry	0.0234	ND	108	70-130			
Vinyl Chloride	0.0164	0.012	mg/Kg dry	0.0234	ND	70.0	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141573 - SW-846 5035										
Matrix Spike (B141573-MS1)		Source: 16B0151-01			Prepared & Analyzed: 02/05/16					
m+p Xylene	0.0475	0.0047	mg/Kg dry	0.0468	ND	101	70-130			
o-Xylene	0.0233	0.0023	mg/Kg dry	0.0234	ND	99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0489		mg/Kg dry	0.0585		83.7	70-130			
Surrogate: Toluene-d8	0.0565		mg/Kg dry	0.0585		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0581		mg/Kg dry	0.0585		99.4	70-130			
Matrix Spike Dup (B141573-MSD1)		Source: 16B0151-01			Prepared & Analyzed: 02/05/16					
Acetone	0.204	0.11	mg/Kg dry	0.225	ND	90.8	70-130	8.35	30	
Acrylonitrile	0.0202	0.0068	mg/Kg dry	0.0225	ND	89.6	70-130	12.1	30	
tert-Amyl Methyl Ether (TAME)	0.0210	0.0011	mg/Kg dry	0.0225	ND	93.1	70-130	4.49	30	
Benzene	0.0219	0.0023	mg/Kg dry	0.0225	ND	97.3	70-130	6.98	30	
Bromobenzene	0.0199	0.0023	mg/Kg dry	0.0225	ND	88.3	70-130	17.0	30	
Bromochloromethane	0.0223	0.0023	mg/Kg dry	0.0225	ND	99.1	70-130	5.15	30	
Bromodichloromethane	0.0189	0.0023	mg/Kg dry	0.0225	ND	83.8	70-130	7.93	30	
Bromoform	0.0186	0.0023	mg/Kg dry	0.0225	ND	82.8	70-130	12.5	30	
Bromomethane	0.0127	0.011	mg/Kg dry	0.0225	ND	56.6	70-130	4.55	30	MS-07A
2-Butanone (MEK)	0.195	0.045	mg/Kg dry	0.225	ND	86.6	70-130	8.28	30	
tert-Butyl Alcohol (TBA)	0.199	0.045	mg/Kg dry	0.225	ND	88.6	70-130	11.7	30	
n-Butylbenzene	0.0190	0.0023	mg/Kg dry	0.0225	ND	84.2	70-130	22.7	30	
sec-Butylbenzene	0.0200	0.0023	mg/Kg dry	0.0225	ND	88.8	70-130	21.0	30	
tert-Butylbenzene	0.0194	0.0023	mg/Kg dry	0.0225	ND	86.2	70-130	20.2	30	
tert-Butyl Ethyl Ether (TBEE)	0.0213	0.0011	mg/Kg dry	0.0225	ND	94.6	70-130	6.14	30	
Carbon Disulfide	0.0163	0.0068	mg/Kg dry	0.0225	ND	72.2	70-130	14.1	30	
Carbon Tetrachloride	0.0181	0.0023	mg/Kg dry	0.0225	ND	80.4	70-130	10.2	30	
Chlorobenzene	0.0207	0.0023	mg/Kg dry	0.0225	ND	92.0	70-130	16.3	30	
Chlorodibromomethane	0.0185	0.0011	mg/Kg dry	0.0225	ND	82.3	70-130	11.9	30	
Chloroethane	0.0182	0.023	mg/Kg dry	0.0225	ND	81.0	70-130	17.1	30	
Chloroform	0.0195	0.0045	mg/Kg dry	0.0225	ND	86.7	70-130	5.56	30	
Chloromethane	0.0124	0.011	mg/Kg dry	0.0225	ND	55.1	70-130	5.11	30	L-04, MS-09
2-Chlorotoluene	0.0200	0.0023	mg/Kg dry	0.0225	ND	88.8	70-130	16.0	30	
4-Chlorotoluene	0.0190	0.0023	mg/Kg dry	0.0225	ND	84.6	70-130	15.8	30	
1,2-Dibromo-3-chloropropane (DBCP)	0.0165	0.0023	mg/Kg dry	0.0225	ND	73.5	70-130	7.97	30	
1,2-Dibromoethane (EDB)	0.0207	0.0011	mg/Kg dry	0.0225	ND	92.1	70-130	9.74	30	
Dibromomethane	0.0214	0.0023	mg/Kg dry	0.0225	ND	95.0	70-130	7.16	30	
1,2-Dichlorobenzene	0.0192	0.0023	mg/Kg dry	0.0225	ND	85.2	70-130	16.8	30	
1,3-Dichlorobenzene	0.0187	0.0023	mg/Kg dry	0.0225	ND	83.0	70-130	18.8	30	
1,4-Dichlorobenzene	0.0183	0.0023	mg/Kg dry	0.0225	ND	81.3	70-130	17.4	30	
trans-1,4-Dichloro-2-butene	0.0153	0.0045	mg/Kg dry	0.0225	ND	67.8	70-130	16.7	30	MS-24
Dichlorodifluoromethane (Freon 12)	0.00723	0.023	mg/Kg dry	0.0225	ND	32.1	70-130	8.11	30	MS-09
1,1-Dichloroethane	0.0210	0.0023	mg/Kg dry	0.0225	ND	93.1	70-130	6.28	30	
1,2-Dichloroethane	0.0189	0.0023	mg/Kg dry	0.0225	ND	83.8	70-130	3.37	30	
1,1-Dichloroethylene	0.0174	0.0045	mg/Kg dry	0.0225	ND	77.1	70-130	6.53	30	
cis-1,2-Dichloroethylene	0.0188	0.0023	mg/Kg dry	0.0225	ND	83.6	70-130	7.14	30	
trans-1,2-Dichloroethylene	0.0188	0.0023	mg/Kg dry	0.0225	ND	83.4	70-130	13.1	30	
1,2-Dichloropropane	0.0222	0.0023	mg/Kg dry	0.0225	ND	98.5	70-130	5.16	30	
1,3-Dichloropropane	0.0198	0.0011	mg/Kg dry	0.0225	ND	88.0	70-130	9.04	30	
2,2-Dichloropropane	0.0177	0.0023	mg/Kg dry	0.0225	ND	78.8	70-130	6.47	30	
1,1-Dichloropropene	0.0205	0.0023	mg/Kg dry	0.0225	ND	90.9	70-130	10.2	30	
cis-1,3-Dichloropropene	0.0177	0.0011	mg/Kg dry	0.0225	ND	78.6	70-130	7.71	30	
trans-1,3-Dichloropropene	0.0166	0.0011	mg/Kg dry	0.0225	ND	73.9	70-130	10.5	30	
Diethyl Ether	0.0217	0.023	mg/Kg dry	0.0225	ND	96.2	70-130	4.57	30	
Diisopropyl Ether (DIPE)	0.0197	0.0011	mg/Kg dry	0.0225	ND	87.4	70-130	5.43	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141573 - SW-846 5035										
Matrix Spike Dup (B141573-MSD1)		Source: 16B0151-01			Prepared & Analyzed: 02/05/16					
1,4-Dioxane	0.238	0.11	mg/Kg dry	0.225	ND	106	70-130	3.08	30	
Ethylbenzene	0.0215	0.0023	mg/Kg dry	0.0225	ND	95.5	70-130	14.2	30	
Hexachlorobutadiene	0.0159	0.0023	mg/Kg dry	0.0225	ND	70.4	70-130	27.6	30	
2-Hexanone (MBK)	0.205	0.023	mg/Kg dry	0.225	ND	91.2	70-130	6.08	30	
Isopropylbenzene (Cumene)	0.0211	0.0023	mg/Kg dry	0.0225	ND	93.9	70-130	18.5	30	
p-Isopropyltoluene (p-Cymene)	0.0187	0.0023	mg/Kg dry	0.0225	ND	82.9	70-130	16.4	30	
Methyl tert-Butyl Ether (MTBE)	0.0218	0.0045	mg/Kg dry	0.0225	ND	96.9	70-130	3.33	30	
Methylene Chloride	0.0238	0.023	mg/Kg dry	0.0225	ND	106	70-130	0.577	30	
4-Methyl-2-pentanone (MIBK)	0.199	0.023	mg/Kg dry	0.225	ND	88.3	70-130	6.03	30	
Naphthalene	0.0164	0.0045	mg/Kg dry	0.0225	ND	73.0	70-130	11.7	30	
n-Propylbenzene	0.0207	0.0023	mg/Kg dry	0.0225	ND	91.9	70-130	17.3	30	
Styrene	0.0216	0.0023	mg/Kg dry	0.0225	ND	95.9	70-130	16.0	30	
1,1,1,2-Tetrachloroethane	0.0206	0.0023	mg/Kg dry	0.0225	ND	91.6	70-130	13.0	30	
1,1,2,2-Tetrachloroethane	0.0229	0.0011	mg/Kg dry	0.0225	ND	102	70-130	10.2	30	
Tetrachloroethylene	0.0220	0.0023	mg/Kg dry	0.0225	ND	97.6	70-130	11.3	30	
Tetrahydrofuran	0.0211	0.011	mg/Kg dry	0.0225	ND	93.9	70-130	8.52	30	
Toluene	0.0197	0.0023	mg/Kg dry	0.0225	ND	87.3	70-130	10.3	30	
1,2,3-Trichlorobenzene	0.0157	0.0023	mg/Kg dry	0.0225	ND	69.7	* 70-130	15.5	30	MS-24
1,2,4-Trichlorobenzene	0.0159	0.0023	mg/Kg dry	0.0225	ND	70.6	70-130	18.9	30	
1,3,5-Trichlorobenzene	0.0174	0.0023	mg/Kg dry	0.0225	ND	77.5	70-130	23.5	30	
1,1,1-Trichloroethane	0.0188	0.0023	mg/Kg dry	0.0225	ND	83.7	70-130	7.71	30	
1,1,2-Trichloroethane	0.0226	0.0023	mg/Kg dry	0.0225	ND	100	70-130	6.40	30	
Trichloroethylene	0.0203	0.0023	mg/Kg dry	0.0225	ND	90.1	70-130	9.24	30	
Trichlorofluoromethane (Freon 11)	0.0165	0.011	mg/Kg dry	0.0225	ND	73.4	70-130	6.40	30	
1,2,3-Trichloropropane	0.0198	0.0023	mg/Kg dry	0.0225	ND	88.0	70-130	10.1	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0189	0.011	mg/Kg dry	0.0225	ND	84.1	70-130	8.15	30	
1,2,4-Trimethylbenzene	0.0200	0.0023	mg/Kg dry	0.0225	ND	88.9	70-130	18.4	30	
1,3,5-Trimethylbenzene	0.0212	0.0023	mg/Kg dry	0.0225	ND	94.1	70-130	17.9	30	
Vinyl Chloride	0.0153	0.011	mg/Kg dry	0.0225	ND	68.1	* 70-130	6.60	30	MS-24
m+p Xylene	0.0412	0.0045	mg/Kg dry	0.0450	ND	91.4	70-130	14.3	30	
o-Xylene	0.0206	0.0023	mg/Kg dry	0.0225	ND	91.3	70-130	12.6	30	
Surrogate: 1,2-Dichloroethane-d4	0.0483		mg/Kg dry	0.0563		85.8	70-130			
Surrogate: Toluene-d8	0.0550		mg/Kg dry	0.0563		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0553		mg/Kg dry	0.0563		98.2	70-130			

Batch B142153 - SW-846 5030B

Blank (B142153-BLK1)		Prepared & Analyzed: 02/15/16								
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B142153 - SW-846 5030B

Blank (B142153-BLK1)

Prepared & Analyzed: 02/15/16

tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B142153 - SW-846 5030B										
Blank (B142153-BLK1)										
Prepared & Analyzed: 02/15/16										
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	29.1		µg/L	25.0		116	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.4	70-130			
LCS (B142153-BS1)										
Prepared & Analyzed: 02/15/16										
Acetone	80.0	50	µg/L	100		80.0	70-160			†
Acrylonitrile	7.67	5.0	µg/L	10.0		76.7	70-130			
tert-Amyl Methyl Ether (TAME)	11.0	0.50	µg/L	10.0		110	70-130			
Benzene	11.2	1.0	µg/L	10.0		112	70-130			
Bromobenzene	12.3	1.0	µg/L	10.0		123	70-130			
Bromochloromethane	13.8	1.0	µg/L	10.0		138 *	70-130			L-02, V-20
Bromodichloromethane	12.4	0.50	µg/L	10.0		124	70-130			
Bromoform	9.89	1.0	µg/L	10.0		98.9	70-130			
Bromomethane	7.44	2.0	µg/L	10.0		74.4	40-160			†
2-Butanone (MEK)	84.4	20	µg/L	100		84.4	40-160			†
tert-Butyl Alcohol (TBA)	75.7	20	µg/L	100		75.7	40-160			†
n-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
sec-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
tert-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
tert-Butyl Ethyl Ether (TBEE)	12.2	0.50	µg/L	10.0		122	70-130			
Carbon Disulfide	8.96	4.0	µg/L	10.0		89.6	70-130			
Carbon Tetrachloride	12.1	5.0	µg/L	10.0		121	70-130			
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Chlorodibromomethane	11.5	0.50	µg/L	10.0		115	70-130			
Chloroethane	9.50	2.0	µg/L	10.0		95.0	70-130			
Chloroform	12.9	2.0	µg/L	10.0		129	70-130			
Chloromethane	9.96	2.0	µg/L	10.0		99.6	40-160			†
2-Chlorotoluene	11.7	1.0	µg/L	10.0		117	70-130			
4-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.23	5.0	µg/L	10.0		82.3	70-130			
1,2-Dibromoethane (EDB)	11.4	0.50	µg/L	10.0		114	70-130			
Dibromomethane	12.4	1.0	µg/L	10.0		124	70-130			
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130			
trans-1,4-Dichloro-2-butene	8.98	2.0	µg/L	10.0		89.8	70-130			
Dichlorodifluoromethane (Freon 12)	6.90	2.0	µg/L	10.0		69.0	40-160			†
1,1-Dichloroethane	12.5	1.0	µg/L	10.0		125	70-130			
1,2-Dichloroethane	14.0	1.0	µg/L	10.0		140 *	70-130			L-02, V-20
1,1-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
cis-1,2-Dichloroethylene	12.1	1.0	µg/L	10.0		121	70-130			
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B142153 - SW-846 5030B										
LCS (B142153-BS1)										
Prepared & Analyzed: 02/15/16										
1,2-Dichloropropane	11.6	1.0	µg/L	10.0		116	70-130			
1,3-Dichloropropane	11.8	0.50	µg/L	10.0		118	70-130			
2,2-Dichloropropane	11.8	1.0	µg/L	10.0		118	40-130			†
1,1-Dichloropropene	11.5	2.0	µg/L	10.0		115	70-130			
cis-1,3-Dichloropropene	10.9	0.50	µg/L	10.0		109	70-130			
trans-1,3-Dichloropropene	12.2	0.50	µg/L	10.0		122	70-130			
Diethyl Ether	11.5	2.0	µg/L	10.0		115	70-130			
Diisopropyl Ether (DIPE)	11.4	0.50	µg/L	10.0		114	70-130			
1,4-Dioxane	80.4	50	µg/L	100		80.4	40-130			†
Ethylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
Hexachlorobutadiene	11.9	0.50	µg/L	10.0		119	70-130			
2-Hexanone (MBK)	87.5	10	µg/L	100		87.5	70-160			†
Isopropylbenzene (Cumene)	11.1	1.0	µg/L	10.0		111	70-130			
p-Isopropyltoluene (p-Cymene)	12.1	1.0	µg/L	10.0		121	70-130			
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108	70-130			
Methylene Chloride	10.7	5.0	µg/L	10.0		107	70-130			
4-Methyl-2-pentanone (MIBK)	93.7	10	µg/L	100		93.7	70-160			†
Naphthalene	9.25	2.0	µg/L	10.0		92.5	40-130			†
n-Propylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
Styrene	11.4	1.0	µg/L	10.0		114	70-130			
1,1,1,2-Tetrachloroethane	11.9	1.0	µg/L	10.0		119	70-130			
1,1,2,2-Tetrachloroethane	9.25	0.50	µg/L	10.0		92.5	70-130			
Tetrachloroethylene	11.9	1.0	µg/L	10.0		119	70-130			
Tetrahydrofuran	9.86	10	µg/L	10.0		98.6	70-130			
Toluene	11.9	1.0	µg/L	10.0		119	70-130			
1,2,3-Trichlorobenzene	10.9	5.0	µg/L	10.0		109	70-130			
1,2,4-Trichlorobenzene	12.2	1.0	µg/L	10.0		122	70-130			
1,3,5-Trichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,1,1-Trichloroethane	12.0	1.0	µg/L	10.0		120	70-130			
1,1,2-Trichloroethane	11.7	1.0	µg/L	10.0		117	70-130			
Trichloroethylene	12.3	1.0	µg/L	10.0		123	70-130			
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102	70-130			
1,2,3-Trichloropropane	9.71	2.0	µg/L	10.0		97.1	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.81	1.0	µg/L	10.0		98.1	70-130			
1,2,4-Trimethylbenzene	11.8	1.0	µg/L	10.0		118	70-130			
1,3,5-Trimethylbenzene	12.1	1.0	µg/L	10.0		121	70-130			
Vinyl Chloride	8.91	2.0	µg/L	10.0		89.1	40-160			†
m+p Xylene	22.7	2.0	µg/L	20.0		114	70-130			
o-Xylene	11.5	1.0	µg/L	10.0		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	30.2		µg/L	25.0		121	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.7	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B142153 - SW-846 5030B

LCS Dup (B142153-BSD1)

Prepared & Analyzed: 02/15/16

Acetone	80.5	50	µg/L	100		80.5	70-160	0.636	25	†
Acrylonitrile	7.75	5.0	µg/L	10.0		77.5	70-130	1.04	25	
tert-Amyl Methyl Ether (TAME)	10.8	0.50	µg/L	10.0		108	70-130	2.02	25	
Benzene	10.9	1.0	µg/L	10.0		109	70-130	2.89	25	
Bromobenzene	12.2	1.0	µg/L	10.0		122	70-130	0.978	25	
Bromochloromethane	14.4	1.0	µg/L	10.0		144 *	70-130	4.47	25	L-02, V-20
Bromodichloromethane	12.4	0.50	µg/L	10.0		124	70-130	0.241	25	
Bromoform	9.57	1.0	µg/L	10.0		95.7	70-130	3.29	25	
Bromomethane	8.29	2.0	µg/L	10.0		82.9	40-160	10.8	25	†
2-Butanone (MEK)	86.6	20	µg/L	100		86.6	40-160	2.49	25	†
tert-Butyl Alcohol (TBA)	74.7	20	µg/L	100		74.7	40-160	1.32	25	†
n-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130	1.52	25	
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	6.81	25	
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130	1.59	25	
tert-Butyl Ethyl Ether (TBEE)	12.1	0.50	µg/L	10.0		121	70-130	0.821	25	
Carbon Disulfide	8.75	4.0	µg/L	10.0		87.5	70-130	2.37	25	
Carbon Tetrachloride	11.3	5.0	µg/L	10.0		113	70-130	6.40	25	
Chlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	0.284	25	
Chlorodibromomethane	11.3	0.50	µg/L	10.0		113	70-130	2.11	25	
Chloroethane	9.43	2.0	µg/L	10.0		94.3	70-130	0.740	25	
Chloroform	12.6	2.0	µg/L	10.0		126	70-130	2.43	25	
Chloromethane	10.6	2.0	µg/L	10.0		106	40-160	5.75	25	†
2-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130	5.73	25	
4-Chlorotoluene	11.6	1.0	µg/L	10.0		116	70-130	1.30	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.18	5.0	µg/L	10.0		81.8	70-130	0.609	25	
1,2-Dibromoethane (EDB)	11.6	0.50	µg/L	10.0		116	70-130	1.39	25	
Dibromomethane	12.1	1.0	µg/L	10.0		121	70-130	2.93	25	
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	0.740	25	
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	2.34	25	
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	0.550	25	
trans-1,4-Dichloro-2-butene	8.90	2.0	µg/L	10.0		89.0	70-130	0.895	25	
Dichlorodifluoromethane (Freon 12)	6.46	2.0	µg/L	10.0		64.6	40-160	6.59	25	†
1,1-Dichloroethane	11.9	1.0	µg/L	10.0		119	70-130	4.76	25	
1,2-Dichloroethane	13.6	1.0	µg/L	10.0		136 *	70-130	3.48	25	L-02, V-20
1,1-Dichloroethylene	9.88	1.0	µg/L	10.0		98.8	70-130	4.84	25	
cis-1,2-Dichloroethylene	11.9	1.0	µg/L	10.0		119	70-130	1.83	25	
trans-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	2.30	25	
1,2-Dichloropropane	11.5	1.0	µg/L	10.0		115	70-130	1.47	25	
1,3-Dichloropropane	11.4	0.50	µg/L	10.0		114	70-130	3.46	25	
2,2-Dichloropropane	11.3	1.0	µg/L	10.0		113	40-130	4.33	25	†
1,1-Dichloropropene	11.2	2.0	µg/L	10.0		112	70-130	1.94	25	
cis-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130	0.638	25	
trans-1,3-Dichloropropene	11.8	0.50	µg/L	10.0		118	70-130	3.58	25	
Diethyl Ether	11.1	2.0	µg/L	10.0		111	70-130	3.18	25	
Diisopropyl Ether (DIPE)	11.3	0.50	µg/L	10.0		113	70-130	0.440	25	
1,4-Dioxane	91.2	50	µg/L	100		91.2	40-130	12.5	50	† ‡
Ethylbenzene	11.1	1.0	µg/L	10.0		111	70-130	1.88	25	
Hexachlorobutadiene	11.6	0.50	µg/L	10.0		116	70-130	2.81	25	
2-Hexanone (MBK)	87.4	10	µg/L	100		87.4	70-160	0.0915	25	†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108	70-130	2.73	25	
p-Isopropyltoluene (p-Cymene)	11.7	1.0	µg/L	10.0		117	70-130	3.03	25	
Methyl tert-Butyl Ether (MTBE)	11.2	1.0	µg/L	10.0		112	70-130	3.26	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B142153 - SW-846 5030B										
LCS Dup (B142153-BSD1)										
Prepared & Analyzed: 02/15/16										
Methylene Chloride	11.1	5.0	µg/L	10.0		111	70-130	3.22	25	
4-Methyl-2-pentanone (MIBK)	94.8	10	µg/L	100		94.8	70-160	1.15	25	†
Naphthalene	9.33	2.0	µg/L	10.0		93.3	40-130	0.861	25	†
n-Propylbenzene	11.2	1.0	µg/L	10.0		112	70-130	0.536	25	
Styrene	11.3	1.0	µg/L	10.0		113	70-130	1.05	25	
1,1,1,2-Tetrachloroethane	11.6	1.0	µg/L	10.0		116	70-130	2.46	25	
1,1,2,2-Tetrachloroethane	9.48	0.50	µg/L	10.0		94.8	70-130	2.46	25	
Tetrachloroethylene	11.8	1.0	µg/L	10.0		118	70-130	1.43	25	
Tetrahydrofuran	10.4	10	µg/L	10.0		104	70-130	5.81	25	
Toluene	11.2	1.0	µg/L	10.0		112	70-130	5.53	25	
1,2,3-Trichlorobenzene	11.2	5.0	µg/L	10.0		112	70-130	2.53	25	
1,2,4-Trichlorobenzene	11.9	1.0	µg/L	10.0		119	70-130	2.32	25	
1,3,5-Trichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	1.02	25	
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130	3.84	25	
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130	2.60	25	
Trichloroethylene	12.0	1.0	µg/L	10.0		120	70-130	2.14	25	
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.0		101	70-130	0.492	25	
1,2,3-Trichloropropane	9.55	2.0	µg/L	10.0		95.5	70-130	1.66	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.64	1.0	µg/L	10.0		96.4	70-130	1.75	25	
1,2,4-Trimethylbenzene	11.2	1.0	µg/L	10.0		112	70-130	4.70	25	
1,3,5-Trimethylbenzene	11.7	1.0	µg/L	10.0		117	70-130	2.94	25	
Vinyl Chloride	8.52	2.0	µg/L	10.0		85.2	40-160	4.48	25	†
m+p Xylene	22.5	2.0	µg/L	20.0		112	70-130	1.02	25	
o-Xylene	11.4	1.0	µg/L	10.0		114	70-130	0.612	25	
Surrogate: 1,2-Dichloroethane-d4	30.3		µg/L	25.0		121	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.2	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141388 - SW-846 3510C

Blank (B141388-BLK1)

Prepared: 02/04/16 Analyzed: 02/06/16

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							L-04, R-05, V-04, V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							R-05
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-19
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141388 - SW-846 3510C

Blank (B141388-BLK1)

Prepared: 02/04/16 Analyzed: 02/06/16

3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							V-16
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	82.4		µg/L	200		41.2	15-110			
Surrogate: Phenol-d6	55.0		µg/L	200		27.5	15-110			
Surrogate: Nitrobenzene-d5	82.2		µg/L	100		82.2	30-130			
Surrogate: 2-Fluorobiphenyl	85.1		µg/L	100		85.1	30-130			
Surrogate: 2,4,6-Tribromophenol	182		µg/L	200		90.8	15-110			
Surrogate: p-Terphenyl-d14	97.8		µg/L	100		97.8	30-130			

Blank (B141388-BLK2)

Prepared: 02/04/16 Analyzed: 02/06/16

Bis(2-Ethylhexyl)phthalate	ND	2.5	µg/L							
Phenol	ND	2.5	µg/L							
Surrogate: 2-Fluorophenol	55.0		µg/L	200		27.5	15-110			
Surrogate: Phenol-d6	34.3		µg/L	200		17.2	15-110			
Surrogate: Nitrobenzene-d5	60.7		µg/L	100		60.7	30-130			
Surrogate: 2-Fluorobiphenyl	65.1		µg/L	100		65.1	30-130			
Surrogate: 2,4,6-Tribromophenol	188		µg/L	200		94.0	15-110			
Surrogate: p-Terphenyl-d14	86.4		µg/L	100		86.4	30-130			

LCS (B141388-BS1)

Prepared: 02/04/16 Analyzed: 02/06/16

Acenaphthene	39.6	5.0	µg/L	50.0		79.2	40-140			
Acenaphthylene	39.4	5.0	µg/L	50.0		78.9	40-140			
Acetophenone	32.8	10	µg/L	50.0		65.5	40-140			
Aniline	19.4	5.0	µg/L	50.0		38.8	* 40-140			L-07
Anthracene	39.4	5.0	µg/L	50.0		78.9	40-140			
Benzidine	ND	20	µg/L	50.0		*	40-140			V-05, L-04, R-05, V-04
Benzo(a)anthracene	40.4	5.0	µg/L	50.0		80.8	40-140			
Benzo(a)pyrene	43.0	5.0	µg/L	50.0		86.1	40-140			
Benzo(b)fluoranthene	43.5	5.0	µg/L	50.0		86.9	40-140			
Benzo(g,h,i)perylene	35.4	5.0	µg/L	50.0		70.8	40-140			
Benzo(k)fluoranthene	41.6	5.0	µg/L	50.0		83.2	40-140			
Benzoic Acid	11.1	10	µg/L	50.0		22.2	10-130			†
Bis(2-chloroethoxy)methane	37.2	10	µg/L	50.0		74.3	40-140			
Bis(2-chloroethyl)ether	38.3	10	µg/L	50.0		76.5	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141388 - SW-846 3510C										
LCS (B141388-BS1)										
					Prepared: 02/04/16 Analyzed: 02/06/16					
Bis(2-chloroisopropyl)ether	31.4	10	µg/L	50.0		62.8	40-140			
Bis(2-Ethylhexyl)phthalate	43.8	10	µg/L	50.0		87.5	40-140			
4-Bromophenylphenylether	42.8	10	µg/L	50.0		85.6	40-140			
Butylbenzylphthalate	40.3	10	µg/L	50.0		80.5	40-140			
Carbazole	42.0	10	µg/L	50.0		84.0	40-140			
4-Chloroaniline	22.3	10	µg/L	50.0		44.5	40-140			
4-Chloro-3-methylphenol	41.6	10	µg/L	50.0		83.1	30-130			
2-Chloronaphthalene	32.1	10	µg/L	50.0		64.2	40-140			
2-Chlorophenol	32.3	10	µg/L	50.0		64.5	30-130			
4-Chlorophenylphenylether	42.1	10	µg/L	50.0		84.1	40-140			
Chrysene	40.5	5.0	µg/L	50.0		80.9	40-140			
Dibenz(a,h)anthracene	39.3	5.0	µg/L	50.0		78.6	40-140			
Dibenzofuran	40.0	5.0	µg/L	50.0		80.1	40-140			
Di-n-butylphthalate	43.0	10	µg/L	50.0		85.9	40-140			
1,2-Dichlorobenzene	34.4	5.0	µg/L	50.0		68.8	40-140			
1,3-Dichlorobenzene	33.2	5.0	µg/L	50.0		66.5	40-140			
1,4-Dichlorobenzene	32.6	5.0	µg/L	50.0		65.1	40-140			
3,3-Dichlorobenzidine	28.6	10	µg/L	50.0		57.3	40-140			
2,4-Dichlorophenol	41.2	10	µg/L	50.0		82.4	30-130			
Diethylphthalate	41.1	10	µg/L	50.0		82.3	40-140			
2,4-Dimethylphenol	32.7	10	µg/L	50.0		65.4	30-130			R-05
Dimethylphthalate	42.4	10	µg/L	50.0		84.8	40-140			
4,6-Dinitro-2-methylphenol	38.9	10	µg/L	50.0		77.8	30-130			
2,4-Dinitrophenol	39.2	10	µg/L	50.0		78.5	30-130			
2,4-Dinitrotoluene	38.6	10	µg/L	50.0		77.1	40-140			
2,6-Dinitrotoluene	39.8	10	µg/L	50.0		79.6	40-140			
Di-n-octylphthalate	44.3	10	µg/L	50.0		88.6	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	39.0	10	µg/L	50.0		78.0	40-140			
Fluoranthene	42.2	5.0	µg/L	50.0		84.5	40-140			
Fluorene	40.7	5.0	µg/L	50.0		81.3	40-140			
Hexachlorobenzene	39.0	10	µg/L	50.0		78.0	40-140			
Hexachlorobutadiene	38.5	10	µg/L	50.0		77.0	40-140			
Hexachlorocyclopentadiene	33.9	10	µg/L	50.0		67.9	30-140			V-19 †
Hexachloroethane	35.7	10	µg/L	50.0		71.3	40-140			
Indeno(1,2,3-cd)pyrene	35.8	5.0	µg/L	50.0		71.5	40-140			
Isophorone	41.3	10	µg/L	50.0		82.6	40-140			
1-Methylnaphthalene	37.8	5.0	µg/L	50.0		75.5	40-140			
2-Methylnaphthalene	39.4	5.0	µg/L	50.0		78.8	40-140			
2-Methylphenol	27.4	10	µg/L	50.0		54.8	30-130			
3/4-Methylphenol	24.2	10	µg/L	50.0		48.4	30-130			
Naphthalene	35.0	5.0	µg/L	50.0		70.0	40-140			
2-Nitroaniline	38.7	10	µg/L	50.0		77.4	40-140			
3-Nitroaniline	36.2	10	µg/L	50.0		72.3	40-140			
4-Nitroaniline	35.5	10	µg/L	50.0		71.1	40-140			
Nitrobenzene	35.4	10	µg/L	50.0		70.9	40-140			
2-Nitrophenol	35.7	10	µg/L	50.0		71.5	30-130			
4-Nitrophenol	19.3	10	µg/L	50.0		38.6	10-130			†
N-Nitrosodimethylamine	19.0	10	µg/L	50.0		38.0 *	40-140			L-07
N-Nitrosodiphenylamine	47.3	10	µg/L	50.0		94.6	40-140			
N-Nitrosodi-n-propylamine	33.4	10	µg/L	50.0		66.8	40-140			
Pentachloronitrobenzene	47.2	10	µg/L	50.0		94.4	40-140			V-16
Pentachlorophenol	32.4	10	µg/L	50.0		64.8	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141388 - SW-846 3510C

LCS (B141388-BS1)

Prepared: 02/04/16 Analyzed: 02/06/16

Phenanthrene	42.5	5.0	µg/L	50.0		85.0	40-140			
Phenol	11.6	10	µg/L	50.0		23.2	20-130			†
Pyrene	37.4	5.0	µg/L	50.0		74.8	40-140			
Pyridine	7.97	5.0	µg/L	50.0		15.9	10-140			†
1,2,4,5-Tetrachlorobenzene	40.7	10	µg/L	50.0		81.4	40-140			
1,2,4-Trichlorobenzene	38.2	5.0	µg/L	50.0		76.5	40-140			
2,4,5-Trichlorophenol	42.2	10	µg/L	50.0		84.4	30-130			
2,4,6-Trichlorophenol	41.3	10	µg/L	50.0		82.7	30-130			
Surrogate: 2-Fluorophenol	74.4		µg/L	200		37.2	15-110			
Surrogate: Phenol-d6	51.0		µg/L	200		25.5	15-110			
Surrogate: Nitrobenzene-d5	81.8		µg/L	100		81.8	30-130			
Surrogate: 2-Fluorobiphenyl	85.1		µg/L	100		85.1	30-130			
Surrogate: 2,4,6-Tribromophenol	189		µg/L	200		94.5	15-110			
Surrogate: p-Terphenyl-d14	89.1		µg/L	100		89.1	30-130			

LCS Dup (B141388-BSD1)

Prepared: 02/04/16 Analyzed: 02/06/16

Acenaphthene	41.1	5.0	µg/L	50.0		82.2	40-140	3.74	20	
Acenaphthylene	40.8	5.0	µg/L	50.0		81.5	40-140	3.27	20	
Acetophenone	36.9	10	µg/L	50.0		73.8	40-140	12.0	20	
Aniline	22.2	5.0	µg/L	50.0		44.4	40-140	13.5	50	‡
Anthracene	41.6	5.0	µg/L	50.0		83.3	40-140	5.40	20	
Benzidine	14.8	20	µg/L	50.0		29.6 *	40-140	87.3 *	20	L-04, R-05, V-04, V-05
Benzo(a)anthracene	40.2	5.0	µg/L	50.0		80.4	40-140	0.521	20	
Benzo(a)pyrene	42.7	5.0	µg/L	50.0		85.4	40-140	0.746	20	
Benzo(b)fluoranthene	41.4	5.0	µg/L	50.0		82.9	40-140	4.78	20	
Benzo(g,h,i)perylene	36.4	5.0	µg/L	50.0		72.8	40-140	2.84	20	
Benzo(k)fluoranthene	40.2	5.0	µg/L	50.0		80.3	40-140	3.55	20	
Benzoic Acid	11.4	10	µg/L	50.0		22.8	10-130	2.58	50	† ‡
Bis(2-chloroethoxy)methane	40.3	10	µg/L	50.0		80.6	40-140	8.11	20	
Bis(2-chloroethyl)ether	36.6	10	µg/L	50.0		73.2	40-140	4.43	20	
Bis(2-chloroisopropyl)ether	34.2	10	µg/L	50.0		68.3	40-140	8.33	20	
Bis(2-Ethylhexyl)phthalate	44.9	10	µg/L	50.0		89.8	40-140	2.57	20	
4-Bromophenylphenylether	45.5	10	µg/L	50.0		90.9	40-140	6.10	20	
Butylbenzylphthalate	41.1	10	µg/L	50.0		82.1	40-140	1.94	20	
Carbazole	42.8	10	µg/L	50.0		85.5	40-140	1.82	20	
4-Chloroaniline	25.6	10	µg/L	50.0		51.2	40-140	14.0	20	
4-Chloro-3-methylphenol	39.9	10	µg/L	50.0		79.8	30-130	4.05	20	
2-Chloronaphthalene	35.6	10	µg/L	50.0		71.1	40-140	10.1	20	
2-Chlorophenol	35.9	10	µg/L	50.0		71.9	30-130	10.8	20	
4-Chlorophenylphenylether	42.5	10	µg/L	50.0		85.0	40-140	0.993	20	
Chrysene	41.0	5.0	µg/L	50.0		82.1	40-140	1.42	20	
Dibenz(a,h)anthracene	39.4	5.0	µg/L	50.0		78.8	40-140	0.254	20	
Dibenzofuran	40.1	5.0	µg/L	50.0		80.3	40-140	0.250	20	
Di-n-butylphthalate	45.6	10	µg/L	50.0		91.2	40-140	6.01	20	
1,2-Dichlorobenzene	37.1	5.0	µg/L	50.0		74.2	40-140	7.55	20	
1,3-Dichlorobenzene	37.0	5.0	µg/L	50.0		74.1	40-140	10.8	20	
1,4-Dichlorobenzene	34.6	5.0	µg/L	50.0		69.2	40-140	6.10	20	
3,3-Dichlorobenzidine	29.1	10	µg/L	50.0		58.3	40-140	1.70	20	
2,4-Dichlorophenol	40.6	10	µg/L	50.0		81.3	30-130	1.37	20	
Diethylphthalate	41.9	10	µg/L	50.0		83.8	40-140	1.78	20	
2,4-Dimethylphenol	41.3	10	µg/L	50.0		82.7	30-130	23.4 *	20	R-05
Dimethylphthalate	43.0	10	µg/L	50.0		86.0	40-140	1.50	50	‡

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141388 - SW-846 3510C										
LCS Dup (B141388-BSD1)										
					Prepared: 02/04/16 Analyzed: 02/06/16					
4,6-Dinitro-2-methylphenol	41.7	10	µg/L	50.0		83.4	30-130	6.87	50	‡
2,4-Dinitrophenol	42.6	10	µg/L	50.0		85.1	30-130	8.09	50	‡
2,4-Dinitrotoluene	37.9	10	µg/L	50.0		75.8	40-140	1.70	20	
2,6-Dinitrotoluene	39.8	10	µg/L	50.0		79.7	40-140	0.0753	20	
Di-n-octylphthalate	45.8	10	µg/L	50.0		91.5	40-140	3.29	20	
1,2-Diphenylhydrazine (as Azobenzene)	40.5	10	µg/L	50.0		81.0	40-140	3.72	20	
Fluoranthene	43.0	5.0	µg/L	50.0		86.1	40-140	1.92	20	
Fluorene	42.4	5.0	µg/L	50.0		84.9	40-140	4.26	20	
Hexachlorobenzene	42.2	10	µg/L	50.0		84.3	40-140	7.86	20	
Hexachlorobutadiene	41.3	10	µg/L	50.0		82.5	40-140	6.92	20	
Hexachlorocyclopentadiene	36.4	10	µg/L	50.0		72.9	30-140	7.13	50	V-19 † ‡
Hexachloroethane	40.3	10	µg/L	50.0		80.5	40-140	12.1	50	‡
Indeno(1,2,3-cd)pyrene	37.7	5.0	µg/L	50.0		75.3	40-140	5.18	50	‡
Isophorone	43.8	10	µg/L	50.0		87.5	40-140	5.78	20	
1-Methylnaphthalene	37.7	5.0	µg/L	50.0		75.5	40-140	0.0795	20	
2-Methylnaphthalene	41.9	5.0	µg/L	50.0		83.8	40-140	6.15	20	
2-Methylphenol	27.5	10	µg/L	50.0		55.1	30-130	0.473	20	
3/4-Methylphenol	25.6	10	µg/L	50.0		51.2	30-130	5.66	20	
Naphthalene	36.4	5.0	µg/L	50.0		72.7	40-140	3.87	20	
2-Nitroaniline	39.9	10	µg/L	50.0		79.8	40-140	3.08	20	
3-Nitroaniline	35.9	10	µg/L	50.0		71.9	40-140	0.638	20	
4-Nitroaniline	40.0	10	µg/L	50.0		80.0	40-140	11.9	20	
Nitrobenzene	36.5	10	µg/L	50.0		73.0	40-140	2.92	20	
2-Nitrophenol	38.6	10	µg/L	50.0		77.3	30-130	7.82	20	
4-Nitrophenol	19.2	10	µg/L	50.0		38.3	10-130	0.572	50	† ‡
N-Nitrosodimethylamine	20.0	10	µg/L	50.0		40.1	40-140	5.33	20	
N-Nitrosodiphenylamine	50.1	10	µg/L	50.0		100	40-140	5.77	20	
N-Nitrosodi-n-propylamine	38.2	10	µg/L	50.0		76.4	40-140	13.5	20	
Pentachloronitrobenzene	42.1	10	µg/L	50.0		84.2	40-140	11.4	20	V-16
Pentachlorophenol	35.0	10	µg/L	50.0		70.0	30-130	7.75	50	‡
Phenanthrene	43.8	5.0	µg/L	50.0		87.5	40-140	2.97	20	
Phenol	12.5	10	µg/L	50.0		25.0	20-130	7.39	20	†
Pyrene	37.5	5.0	µg/L	50.0		75.1	40-140	0.374	20	
Pyridine	8.19	5.0	µg/L	50.0		16.4	10-140	2.72	50	† ‡
1,2,4,5-Tetrachlorobenzene	42.9	10	µg/L	50.0		85.8	40-140	5.21	20	
1,2,4-Trichlorobenzene	38.8	5.0	µg/L	50.0		77.6	40-140	1.43	20	
2,4,5-Trichlorophenol	44.2	10	µg/L	50.0		88.4	30-130	4.65	20	
2,4,6-Trichlorophenol	44.4	10	µg/L	50.0		88.9	30-130	7.25	50	‡
Surrogate: 2-Fluorophenol	80.8		µg/L	200		40.4	15-110			
Surrogate: Phenol-d6	54.8		µg/L	200		27.4	15-110			
Surrogate: Nitrobenzene-d5	82.6		µg/L	100		82.6	30-130			
Surrogate: 2-Fluorobiphenyl	90.0		µg/L	100		90.0	30-130			
Surrogate: 2,4,6-Tribromophenol	192		µg/L	200		96.2	15-110			
Surrogate: p-Terphenyl-d14	89.0		µg/L	100		89.0	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141804 - SW-846 3546

Blank (B141804-BLK1)

Prepared: 02/10/16 Analyzed: 02/11/16

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzidine	ND	0.66	mg/Kg wet							V-04, V-05
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							V-05, L-04
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							L-04
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141804 - SW-846 3546										
Blank (B141804-BLK1)										
Prepared: 02/10/16 Analyzed: 02/11/16										
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							V-05
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							V-05
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	5.29		mg/Kg wet	6.67		79.4	30-130			
Surrogate: Phenol-d6	5.42		mg/Kg wet	6.67		81.3	30-130			
Surrogate: Nitrobenzene-d5	2.40		mg/Kg wet	3.33		72.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.98		mg/Kg wet	3.33		89.5	30-130			
Surrogate: 2,4,6-Tribromophenol	7.67		mg/Kg wet	6.67		115	30-130			
Surrogate: p-Terphenyl-d14	3.62		mg/Kg wet	3.33		109	30-130			
LCS (B141804-BS1)										
Prepared: 02/10/16 Analyzed: 02/11/16										
Acenaphthene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140			
Acenaphthylene	1.59	0.17	mg/Kg wet	1.67		95.6	40-140			
Acetophenone	1.35	0.34	mg/Kg wet	1.67		80.9	40-140			
Aniline	0.667	0.34	mg/Kg wet	1.67		40.0	10-140			†
Anthracene	1.63	0.17	mg/Kg wet	1.67		97.7	40-140			
Benzdine	0.803	0.66	mg/Kg wet	1.67		48.2	40-140			V-04, V-05
Benzo(a)anthracene	1.60	0.17	mg/Kg wet	1.67		95.8	40-140			
Benzo(a)pyrene	1.65	0.17	mg/Kg wet	1.67		98.9	40-140			
Benzo(b)fluoranthene	1.58	0.17	mg/Kg wet	1.67		94.9	40-140			
Benzo(g,h,i)perylene	1.61	0.17	mg/Kg wet	1.67		96.8	40-140			
Benzo(k)fluoranthene	1.61	0.17	mg/Kg wet	1.67		96.6	40-140			
Benzoic Acid	0.408	1.0	mg/Kg wet	1.67		24.5 *	30-130			L-04, V-05
Bis(2-chloroethoxy)methane	1.46	0.34	mg/Kg wet	1.67		87.7	40-140			
Bis(2-chloroethyl)ether	1.37	0.34	mg/Kg wet	1.67		82.2	40-140			
Bis(2-chloroisopropyl)ether	1.03	0.34	mg/Kg wet	1.67		61.8	40-140			
Bis(2-Ethylhexyl)phthalate	1.41	0.34	mg/Kg wet	1.67		84.6	40-140			
4-Bromophenylphenylether	1.75	0.34	mg/Kg wet	1.67		105	40-140			
Butylbenzylphthalate	1.43	0.34	mg/Kg wet	1.67		85.7	40-140			
Carbazole	1.67	0.17	mg/Kg wet	1.67		100	40-140			
4-Chloroaniline	0.824	0.66	mg/Kg wet	1.67		49.4	10-140			†
4-Chloro-3-methylphenol	1.60	0.66	mg/Kg wet	1.67		96.3	30-130			
2-Chloronaphthalene	1.34	0.34	mg/Kg wet	1.67		80.6	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141804 - SW-846 3546										
LCS (B141804-BS1)										
					Prepared: 02/10/16 Analyzed: 02/11/16					
2-Chlorophenol	1.48	0.34	mg/Kg wet	1.67		88.7	30-130			
4-Chlorophenylphenylether	1.69	0.34	mg/Kg wet	1.67		101	40-140			
Chrysene	1.63	0.17	mg/Kg wet	1.67		97.6	40-140			
Dibenz(a,h)anthracene	1.60	0.17	mg/Kg wet	1.67		95.9	40-140			
Dibenzofuran	1.66	0.34	mg/Kg wet	1.67		99.6	40-140			
Di-n-butylphthalate	1.48	0.34	mg/Kg wet	1.67		88.5	40-140			
1,2-Dichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.2	40-140			
1,3-Dichlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.4	40-140			
1,4-Dichlorobenzene	1.23	0.34	mg/Kg wet	1.67		73.7	40-140			
3,3-Dichlorobenzidine	0.852	0.17	mg/Kg wet	1.67		51.1	20-140			†
2,4-Dichlorophenol	1.68	0.34	mg/Kg wet	1.67		101	30-130			
Diethylphthalate	1.57	0.34	mg/Kg wet	1.67		93.9	40-140			
2,4-Dimethylphenol	1.56	0.34	mg/Kg wet	1.67		93.9	30-130			
Dimethylphthalate	1.66	0.34	mg/Kg wet	1.67		99.4	40-140			
4,6-Dinitro-2-methylphenol	1.05	0.34	mg/Kg wet	1.67		63.1	30-130			
2,4-Dinitrophenol	0.435	0.66	mg/Kg wet	1.67		26.1	* 30-130			L-04
2,4-Dinitrotoluene	1.65	0.34	mg/Kg wet	1.67		99.1	40-140			
2,6-Dinitrotoluene	1.71	0.34	mg/Kg wet	1.67		102	40-140			
Di-n-octylphthalate	1.35	0.34	mg/Kg wet	1.67		81.2	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.26	0.34	mg/Kg wet	1.67		75.3	40-140			
Fluoranthene	1.69	0.17	mg/Kg wet	1.67		102	40-140			
Fluorene	1.64	0.17	mg/Kg wet	1.67		98.4	40-140			
Hexachlorobenzene	1.68	0.34	mg/Kg wet	1.67		101	40-140			
Hexachlorobutadiene	1.41	0.34	mg/Kg wet	1.67		84.4	40-140			
Hexachlorocyclopentadiene	1.06	0.34	mg/Kg wet	1.67		63.7	40-140			
Hexachloroethane	1.15	0.34	mg/Kg wet	1.67		68.9	40-140			
Indeno(1,2,3-cd)pyrene	1.61	0.17	mg/Kg wet	1.67		96.3	40-140			
Isophorone	1.39	0.34	mg/Kg wet	1.67		83.4	40-140			
1-Methylnaphthalene	1.45	0.17	mg/Kg wet	1.67		86.9	40-140			
2-Methylnaphthalene	1.55	0.17	mg/Kg wet	1.67		93.0	40-140			
2-Methylphenol	1.21	0.34	mg/Kg wet	1.67		72.7	30-130			
3/4-Methylphenol	1.49	0.34	mg/Kg wet	1.67		89.6	30-130			
Naphthalene	1.46	0.17	mg/Kg wet	1.67		87.5	40-140			
2-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		80.8	40-140			
3-Nitroaniline	1.41	0.34	mg/Kg wet	1.67		84.7	30-140			†
4-Nitroaniline	1.55	0.34	mg/Kg wet	1.67		93.3	40-140			
Nitrobenzene	1.23	0.34	mg/Kg wet	1.67		73.9	40-140			
2-Nitrophenol	1.60	0.34	mg/Kg wet	1.67		95.9	30-130			
4-Nitrophenol	1.78	0.66	mg/Kg wet	1.67		107	30-130			
N-Nitrosodimethylamine	0.938	0.34	mg/Kg wet	1.67		56.3	40-140			V-05
N-Nitrosodiphenylamine	1.92	0.34	mg/Kg wet	1.67		115	40-140			
N-Nitrosodi-n-propylamine	1.24	0.34	mg/Kg wet	1.67		74.7	40-140			
Pentachloronitrobenzene	1.75	0.34	mg/Kg wet	1.67		105	40-140			V-16
Pentachlorophenol	1.05	0.34	mg/Kg wet	1.67		62.9	30-130			
Phenanthrene	1.65	0.17	mg/Kg wet	1.67		99.0	40-140			
Phenol	1.50	0.34	mg/Kg wet	1.67		89.7	30-130			
Pyrene	1.58	0.17	mg/Kg wet	1.67		94.7	40-140			
Pyridine	0.725	0.34	mg/Kg wet	1.67		43.5	30-140			V-05 †
1,2,4,5-Tetrachlorobenzene	1.60	0.34	mg/Kg wet	1.67		96.1	40-140			
1,2,4-Trichlorobenzene	1.46	0.34	mg/Kg wet	1.67		87.4	40-140			
2,4,5-Trichlorophenol	1.63	0.34	mg/Kg wet	1.67		97.7	30-130			
2,4,6-Trichlorophenol	1.73	0.34	mg/Kg wet	1.67		104	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141804 - SW-846 3546

LCS (B141804-BS1)

Prepared: 02/10/16 Analyzed: 02/11/16

Surrogate: 2-Fluorophenol	5.92		mg/Kg wet	6.67		88.8	30-130			
Surrogate: Phenol-d6	6.03		mg/Kg wet	6.67		90.5	30-130			
Surrogate: Nitrobenzene-d5	2.72		mg/Kg wet	3.33		81.7	30-130			
Surrogate: 2-Fluorobiphenyl	3.29		mg/Kg wet	3.33		98.7	30-130			
Surrogate: 2,4,6-Tribromophenol	8.73		mg/Kg wet	6.67		131 *	30-130			S-07
Surrogate: p-Terphenyl-d14	3.60		mg/Kg wet	3.33		108	30-130			

LCS Dup (B141804-BSD1)

Prepared: 02/10/16 Analyzed: 02/11/16

Acenaphthene	1.43	0.17	mg/Kg wet	1.67		86.0	40-140	2.57	30	
Acenaphthylene	1.53	0.17	mg/Kg wet	1.67		91.6	40-140	4.29	30	
Acetophenone	1.34	0.34	mg/Kg wet	1.67		80.6	40-140	0.322	30	
Aniline	0.645	0.34	mg/Kg wet	1.67		38.7	10-140	3.46	50	† ‡
Anthracene	1.56	0.17	mg/Kg wet	1.67		93.7	40-140	4.20	30	
Benzidine	0.764	0.66	mg/Kg wet	1.67		45.8	40-140	4.94	30	V-04, V-05
Benzo(a)anthracene	1.58	0.17	mg/Kg wet	1.67		94.5	40-140	1.41	30	
Benzo(a)pyrene	1.58	0.17	mg/Kg wet	1.67		94.5	40-140	4.57	30	
Benzo(b)fluoranthene	1.50	0.17	mg/Kg wet	1.67		89.8	40-140	5.57	30	
Benzo(g,h,i)perylene	1.57	0.17	mg/Kg wet	1.67		94.1	40-140	2.85	30	
Benzo(k)fluoranthene	1.55	0.17	mg/Kg wet	1.67		92.8	40-140	4.08	30	
Benzoic Acid	0.418	1.0	mg/Kg wet	1.67		25.1 *	30-130	2.58	50	L-04, V-05 ‡
Bis(2-chloroethoxy)methane	1.40	0.34	mg/Kg wet	1.67		84.3	40-140	3.93	30	
Bis(2-chloroethyl)ether	1.35	0.34	mg/Kg wet	1.67		81.0	40-140	1.57	30	
Bis(2-chloroisopropyl)ether	1.03	0.34	mg/Kg wet	1.67		61.8	40-140	0.0323	30	
Bis(2-Ethylhexyl)phthalate	1.36	0.34	mg/Kg wet	1.67		81.9	40-140	3.24	30	
4-Bromophenylphenylether	1.68	0.34	mg/Kg wet	1.67		101	40-140	4.37	30	
Butylbenzylphthalate	1.40	0.34	mg/Kg wet	1.67		84.3	40-140	1.67	30	
Carbazole	1.59	0.17	mg/Kg wet	1.67		95.4	40-140	5.03	30	
4-Chloroaniline	0.766	0.66	mg/Kg wet	1.67		46.0	10-140	7.21	30	†
4-Chloro-3-methylphenol	1.56	0.66	mg/Kg wet	1.67		93.7	30-130	2.72	30	
2-Chloronaphthalene	1.31	0.34	mg/Kg wet	1.67		78.8	40-140	2.33	30	
2-Chlorophenol	1.48	0.34	mg/Kg wet	1.67		89.0	30-130	0.338	30	
4-Chlorophenylphenylether	1.63	0.34	mg/Kg wet	1.67		97.7	40-140	3.82	30	
Chrysene	1.56	0.17	mg/Kg wet	1.67		93.5	40-140	4.37	30	
Dibenz(a,h)anthracene	1.57	0.17	mg/Kg wet	1.67		94.3	40-140	1.75	30	
Dibenzofuran	1.58	0.34	mg/Kg wet	1.67		94.9	40-140	4.85	30	
Di-n-butylphthalate	1.41	0.34	mg/Kg wet	1.67		84.5	40-140	4.65	30	
1,2-Dichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.2	40-140	0.0777	30	
1,3-Dichlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	1.23	30	
1,4-Dichlorobenzene	1.23	0.34	mg/Kg wet	1.67		74.1	40-140	0.460	30	
3,3-Dichlorobenzidine	0.819	0.17	mg/Kg wet	1.67		49.1	20-140	3.95	50	† ‡
2,4-Dichlorophenol	1.62	0.34	mg/Kg wet	1.67		97.3	30-130	3.48	30	
Diethylphthalate	1.52	0.34	mg/Kg wet	1.67		91.1	40-140	3.07	30	
2,4-Dimethylphenol	1.46	0.34	mg/Kg wet	1.67		87.8	30-130	6.74	30	
Dimethylphthalate	1.61	0.34	mg/Kg wet	1.67		96.4	40-140	3.00	30	
4,6-Dinitro-2-methylphenol	1.08	0.34	mg/Kg wet	1.67		64.6	30-130	2.47	30	
2,4-Dinitrophenol	0.443	0.66	mg/Kg wet	1.67		26.6 *	30-130	1.75	30	L-04
2,4-Dinitrotoluene	1.58	0.34	mg/Kg wet	1.67		94.8	40-140	4.41	30	
2,6-Dinitrotoluene	1.62	0.34	mg/Kg wet	1.67		96.9	40-140	5.48	30	
Di-n-octylphthalate	1.27	0.34	mg/Kg wet	1.67		76.3	40-140	6.20	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.23	0.34	mg/Kg wet	1.67		73.8	40-140	2.09	30	
Fluoranthene	1.60	0.17	mg/Kg wet	1.67		96.0	40-140	5.75	30	
Fluorene	1.59	0.17	mg/Kg wet	1.67		95.2	40-140	3.24	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141804 - SW-846 3546

LCS Dup (B141804-BSD1)

Prepared: 02/10/16 Analyzed: 02/11/16

Hexachlorobenzene	1.62	0.34	mg/Kg wet	1.67		97.5	40-140	3.53	30	
Hexachlorobutadiene	1.36	0.34	mg/Kg wet	1.67		81.6	40-140	3.35	30	
Hexachlorocyclopentadiene	1.04	0.34	mg/Kg wet	1.67		62.1	40-140	2.48	30	
Hexachloroethane	1.16	0.34	mg/Kg wet	1.67		69.4	40-140	0.752	30	
Indeno(1,2,3-cd)pyrene	1.57	0.17	mg/Kg wet	1.67		94.3	40-140	2.16	30	
Isophorone	1.35	0.34	mg/Kg wet	1.67		80.7	40-140	3.29	30	
1-Methylnaphthalene	1.41	0.17	mg/Kg wet	1.67		84.8	40-140	2.47	30	
2-Methylnaphthalene	1.50	0.17	mg/Kg wet	1.67		90.1	40-140	3.21	30	
2-Methylphenol	1.18	0.34	mg/Kg wet	1.67		71.1	30-130	2.25	30	
3/4-Methylphenol	1.49	0.34	mg/Kg wet	1.67		89.2	30-130	0.425	30	
Naphthalene	1.40	0.17	mg/Kg wet	1.67		84.0	40-140	4.04	30	
2-Nitroaniline	1.30	0.34	mg/Kg wet	1.67		78.3	40-140	3.14	30	
3-Nitroaniline	1.38	0.34	mg/Kg wet	1.67		82.5	30-140	2.58	30	†
4-Nitroaniline	1.42	0.34	mg/Kg wet	1.67		85.2	40-140	9.06	30	
Nitrobenzene	1.20	0.34	mg/Kg wet	1.67		71.9	40-140	2.77	30	
2-Nitrophenol	1.58	0.34	mg/Kg wet	1.67		94.6	30-130	1.30	30	
4-Nitrophenol	1.64	0.66	mg/Kg wet	1.67		98.4	30-130	7.90	50	‡
N-Nitrosodimethylamine	0.900	0.34	mg/Kg wet	1.67		54.0	40-140	4.06	30	V-05
N-Nitrosodiphenylamine	1.89	0.34	mg/Kg wet	1.67		114	40-140	1.52	30	
N-Nitrosodi-n-propylamine	1.24	0.34	mg/Kg wet	1.67		74.6	40-140	0.134	30	
Pentachloronitrobenzene	1.76	0.34	mg/Kg wet	1.67		106	40-140	0.664	30	V-16
Pentachlorophenol	0.966	0.34	mg/Kg wet	1.67		58.0	30-130	8.14	30	
Phenanthrene	1.58	0.17	mg/Kg wet	1.67		95.1	40-140	4.02	30	
Phenol	1.47	0.34	mg/Kg wet	1.67		88.3	30-130	1.66	30	
Pyrene	1.58	0.17	mg/Kg wet	1.67		94.7	40-140	0.0422	30	
Pyridine	0.752	0.34	mg/Kg wet	1.67		45.1	30-140	3.57	30	V-05 †
1,2,4,5-Tetrachlorobenzene	1.54	0.34	mg/Kg wet	1.67		92.6	40-140	3.69	30	
1,2,4-Trichlorobenzene	1.40	0.34	mg/Kg wet	1.67		84.3	40-140	3.66	30	
2,4,5-Trichlorophenol	1.58	0.34	mg/Kg wet	1.67		94.9	30-130	2.87	30	
2,4,6-Trichlorophenol	1.69	0.34	mg/Kg wet	1.67		101	30-130	2.49	30	

Surrogate: 2-Fluorophenol	5.90		mg/Kg wet	6.67		88.5	30-130			
Surrogate: Phenol-d6	5.93		mg/Kg wet	6.67		88.9	30-130			
Surrogate: Nitrobenzene-d5	2.63		mg/Kg wet	3.33		78.9	30-130			
Surrogate: 2-Fluorobiphenyl	3.15		mg/Kg wet	3.33		94.6	30-130			
Surrogate: 2,4,6-Tribromophenol	8.16		mg/Kg wet	6.67		122	30-130			
Surrogate: p-Terphenyl-d14	3.56		mg/Kg wet	3.33		107	30-130			

Matrix Spike (B141804-MS1)

Source: 16B0151-01

Prepared: 02/10/16 Analyzed: 02/15/16

Acenaphthene	1.20	0.20	mg/Kg dry	1.99	ND	60.4	40-140			
Acenaphthylene	1.29	0.20	mg/Kg dry	1.99	ND	64.7	40-140			
Acetophenone	1.27	0.41	mg/Kg dry	1.99	ND	64.1	40-140			
Aniline	0.154	0.41	mg/Kg dry	1.99	ND	7.72	* 40-140			MS-09, R-06
Anthracene	1.25	0.20	mg/Kg dry	1.99	0.0903	58.5	40-140			
Benidine	ND	0.79	mg/Kg dry	1.99	ND	*	40-140			MS-09, V-04, V-05
Benzo(a)anthracene	1.50	0.20	mg/Kg dry	1.99	0.601	45.4	40-140			
Benzo(a)pyrene	1.50	0.20	mg/Kg dry	1.99	0.646	43.2	40-140			
Benzo(b)fluoranthene	1.55	0.20	mg/Kg dry	1.99	0.923	31.8	* 40-140			MS-23
Benzo(g,h,i)perylene	1.17	0.20	mg/Kg dry	1.99	0.526	32.4	* 40-140			MS-22
Benzo(k)fluoranthene	1.37	0.20	mg/Kg dry	1.99	0.327	52.4	40-140			R-06
Benzoic Acid	ND	1.2	mg/Kg dry	1.99	ND	*	40-140			MS-09, V-20
Bis(2-chloroethoxy)methane	1.30	0.41	mg/Kg dry	1.99	ND	65.5	40-140			
Bis(2-chloroethyl)ether	1.36	0.41	mg/Kg dry	1.99	ND	68.4	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141804 - SW-846 3546										
Matrix Spike (B141804-MS1)	Source: 16B0151-01			Prepared: 02/10/16 Analyzed: 02/15/16						
Bis(2-chloroisopropyl)ether	0.936	0.41	mg/Kg dry	1.99	ND	47.1	40-140			V-05
Bis(2-Ethylhexyl)phthalate	1.49	0.41	mg/Kg dry	1.99	ND	74.7	40-140			
4-Bromophenylphenylether	1.37	0.41	mg/Kg dry	1.99	ND	69.0	40-140			
Butylbenzylphthalate	1.54	0.41	mg/Kg dry	1.99	ND	77.6	40-140			
Carbazole	1.29	0.20	mg/Kg dry	1.99	ND	64.9	40-140			
4-Chloroaniline	0.257	0.79	mg/Kg dry	1.99	ND	12.9 *	40-140			MS-09
4-Chloro-3-methylphenol	1.24	0.79	mg/Kg dry	1.99	ND	62.2	30-130			
2-Chloronaphthalene	1.19	0.41	mg/Kg dry	1.99	ND	59.7	40-140			
2-Chlorophenol	1.25	0.41	mg/Kg dry	1.99	ND	62.9	30-130			
4-Chlorophenylphenylether	1.34	0.41	mg/Kg dry	1.99	ND	67.2	40-140			
Chrysene	1.57	0.20	mg/Kg dry	1.99	0.763	40.5	40-140			
Dibenz(a,h)anthracene	0.961	0.20	mg/Kg dry	1.99	0.127	41.9	40-140			R-06
Dibenzofuran	1.32	0.41	mg/Kg dry	1.99	ND	66.2	40-140			
Di-n-butylphthalate	1.20	0.41	mg/Kg dry	1.99	ND	60.5	40-140			
1,2-Dichlorobenzene	1.13	0.41	mg/Kg dry	1.99	ND	57.0	40-140			
1,3-Dichlorobenzene	1.11	0.41	mg/Kg dry	1.99	ND	56.1	40-140			
1,4-Dichlorobenzene	1.11	0.41	mg/Kg dry	1.99	ND	55.9	40-140			
3,3-Dichlorobenzidine	0.0632	0.20	mg/Kg dry	1.99	ND	3.18 *	40-140			MS-09, R-06
2,4-Dichlorophenol	1.33	0.41	mg/Kg dry	1.99	ND	67.0	30-130			
Diethylphthalate	1.27	0.41	mg/Kg dry	1.99	ND	64.0	40-140			
2,4-Dimethylphenol	1.22	0.41	mg/Kg dry	1.99	ND	61.2	30-130			
Dimethylphthalate	1.38	0.41	mg/Kg dry	1.99	ND	69.4	40-140			
4,6-Dinitro-2-methylphenol	0.516	0.41	mg/Kg dry	1.99	ND	25.9 *	30-130			MS-23
2,4-Dinitrophenol	0.401	0.79	mg/Kg dry	1.99	ND	20.2 *	30-130			MS-09
2,4-Dinitrotoluene	1.25	0.41	mg/Kg dry	1.99	ND	63.1	40-140			
2,6-Dinitrotoluene	1.38	0.41	mg/Kg dry	1.99	ND	69.2	40-140			
Di-n-octylphthalate	1.39	0.41	mg/Kg dry	1.99	ND	70.1	40-140			R-06
1,2-Diphenylhydrazine (as Azobenzene)	1.01	0.41	mg/Kg dry	1.99	ND	50.6	40-140			
Fluoranthene	1.45	0.20	mg/Kg dry	1.99	1.04	20.3 *	40-140			MS-09
Fluorene	1.27	0.20	mg/Kg dry	1.99	ND	63.6	40-140			
Hexachlorobenzene	1.25	0.41	mg/Kg dry	1.99	ND	62.7	40-140			
Hexachlorobutadiene	1.27	0.41	mg/Kg dry	1.99	ND	63.8	40-140			
Hexachlorocyclopentadiene	0.247	0.41	mg/Kg dry	1.99	ND	12.4 *	30-130			MS-09, R-06
Hexachloroethane	0.878	0.41	mg/Kg dry	1.99	ND	44.2	40-140			
Indeno(1,2,3-cd)pyrene	1.15	0.20	mg/Kg dry	1.99	0.490	33.4 *	40-140			MS-22
Isophorone	1.21	0.41	mg/Kg dry	1.99	ND	61.0	40-140			
1-Methylnaphthalene	1.20	0.20	mg/Kg dry	1.99	ND	60.2	40-140			
2-Methylnaphthalene	1.30	0.20	mg/Kg dry	1.99	ND	65.3	40-140			
2-Methylphenol	0.946	0.41	mg/Kg dry	1.99	ND	47.6	30-130			
3/4-Methylphenol	1.18	0.41	mg/Kg dry	1.99	ND	59.4	30-130			
Naphthalene	1.28	0.20	mg/Kg dry	1.99	ND	64.2	40-140			
2-Nitroaniline	1.09	0.41	mg/Kg dry	1.99	ND	54.7	40-140			
3-Nitroaniline	0.522	0.41	mg/Kg dry	1.99	ND	26.2 *	40-140			MS-09
4-Nitroaniline	0.729	0.41	mg/Kg dry	1.99	ND	36.6 *	40-140			MS-22
Nitrobenzene	1.12	0.41	mg/Kg dry	1.99	ND	56.2	40-140			
2-Nitrophenol	1.38	0.41	mg/Kg dry	1.99	ND	69.2	30-130			
4-Nitrophenol	1.34	0.79	mg/Kg dry	1.99	ND	67.6	30-130			
N-Nitrosodimethylamine	0.708	0.41	mg/Kg dry	1.99	ND	35.6 *	40-140			MS-22, V-05
N-Nitrosodiphenylamine	1.51	0.41	mg/Kg dry	1.99	ND	75.8	40-140			
N-Nitrosodi-n-propylamine	1.08	0.41	mg/Kg dry	1.99	ND	54.5	40-140			
Pentachloronitrobenzene	1.35	0.41	mg/Kg dry	1.99	ND	68.1	40-140			V-16
Pentachlorophenol	0.759	0.41	mg/Kg dry	1.99	ND	38.1	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141804 - SW-846 3546										
Matrix Spike (B141804-MS1)	Source: 16B0151-01			Prepared: 02/10/16 Analyzed: 02/15/16						
Phenanthrene	1.39	0.20	mg/Kg dry	1.99	0.479	45.8	40-140			
Phenol	1.25	0.41	mg/Kg dry	1.99	ND	62.8	30-130			
Pyrene	1.99	0.20	mg/Kg dry	1.99	1.02	48.7	40-140			
Pyridine	0.446	0.41	mg/Kg dry	1.99	ND	22.4 *	40-140			MS-09, V-05
1,2,4,5-Tetrachlorobenzene	1.37	0.41	mg/Kg dry	1.99	ND	69.1	40-140			
1,2,4-Trichlorobenzene	1.26	0.41	mg/Kg dry	1.99	ND	63.4	40-140			
2,4,5-Trichlorophenol	1.28	0.41	mg/Kg dry	1.99	ND	64.3	30-130			
2,4,6-Trichlorophenol	1.39	0.41	mg/Kg dry	1.99	ND	69.8	30-130			
Surrogate: 2-Fluorophenol	4.91		mg/Kg dry	7.96		61.7	30-130			
Surrogate: Phenol-d6	4.88		mg/Kg dry	7.96		61.3	30-130			
Surrogate: Nitrobenzene-d5	2.43		mg/Kg dry	3.98		61.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.73		mg/Kg dry	3.98		68.5	30-130			
Surrogate: 2,4,6-Tribromophenol	6.21		mg/Kg dry	7.96		78.1	30-130			
Surrogate: p-Terphenyl-d14	3.50		mg/Kg dry	3.98		87.9	30-130			
Matrix Spike Dup (B141804-MSD1)	Source: 16B0151-01			Prepared: 02/10/16 Analyzed: 02/13/16						
Acenaphthene	1.44	0.20	mg/Kg dry	1.99	ND	72.6	40-140	18.3	30	
Acenaphthylene	1.55	0.20	mg/Kg dry	1.99	ND	78.0	40-140	18.7	30	
Acetophenone	1.40	0.41	mg/Kg dry	1.99	ND	70.3	40-140	9.23	30	
Aniline	0.210	0.41	mg/Kg dry	1.99	ND	10.6 *	40-140	31.1 *	30	MS-09, R-06
Anthracene	1.54	0.20	mg/Kg dry	1.99	0.0903	72.8	40-140	20.5	30	
Benzidine	ND	0.79	mg/Kg dry	1.99	ND	*	40-140	NC	30	MS-09, V-04, V-05
Benzo(a)anthracene	1.90	0.20	mg/Kg dry	1.99	0.601	65.6	40-140	23.6	30	
Benzo(a)pyrene	1.96	0.20	mg/Kg dry	1.99	0.646	65.8	40-140	26.1	30	
Benzo(b)fluoranthene	2.21	0.20	mg/Kg dry	1.99	0.923	64.9	40-140	34.9 *	30	R-06
Benzo(g,h,i)perylene	1.58	0.20	mg/Kg dry	1.99	0.526	53.1	40-140	30.0	30	
Benzo(k)fluoranthene	1.94	0.20	mg/Kg dry	1.99	0.327	81.2	40-140	34.6 *	30	R-06
Benzoic Acid	ND	1.2	mg/Kg dry	1.99	ND	*	40-140		30	MS-09, V-20
Bis(2-chloroethoxy)methane	1.50	0.41	mg/Kg dry	1.99	ND	75.3	40-140	13.9	30	
Bis(2-chloroethyl)ether	1.70	0.41	mg/Kg dry	1.99	ND	85.3	40-140	22.0	30	
Bis(2-chloroisopropyl)ether	1.08	0.41	mg/Kg dry	1.99	ND	54.5	40-140	14.6	30	V-05
Bis(2-Ethylhexyl)phthalate	1.76	0.41	mg/Kg dry	1.99	ND	88.6	40-140	17.0	30	
4-Bromophenylphenylether	1.79	0.41	mg/Kg dry	1.99	ND	89.9	40-140	26.3	30	
Butylbenzylphthalate	1.95	0.41	mg/Kg dry	1.99	ND	98.0	40-140	23.2	30	
Carbazole	1.55	0.20	mg/Kg dry	1.99	ND	78.0	40-140	18.3	30	
4-Chloroaniline	0.317	0.79	mg/Kg dry	1.99	ND	15.9 *	40-140	21.1	30	MS-09
4-Chloro-3-methylphenol	1.48	0.79	mg/Kg dry	1.99	ND	74.2	30-130	17.6	30	
2-Chloronaphthalene	1.38	0.41	mg/Kg dry	1.99	ND	69.6	40-140	15.3	30	
2-Chlorophenol	1.44	0.41	mg/Kg dry	1.99	ND	72.3	30-130	13.9	30	
4-Chlorophenylphenylether	1.64	0.41	mg/Kg dry	1.99	ND	82.3	40-140	20.2	30	
Chrysene	1.99	0.20	mg/Kg dry	1.99	0.763	61.8	40-140	23.8	30	
Dibenz(a,h)anthracene	1.32	0.20	mg/Kg dry	1.99	0.127	59.8	40-140	31.3 *	30	R-06
Dibenzofuran	1.58	0.41	mg/Kg dry	1.99	ND	79.6	40-140	18.4	30	
Di-n-butylphthalate	1.57	0.41	mg/Kg dry	1.99	ND	78.9	40-140	26.3	30	
1,2-Dichlorobenzene	1.29	0.41	mg/Kg dry	1.99	ND	65.0	40-140	13.1	30	
1,3-Dichlorobenzene	1.26	0.41	mg/Kg dry	1.99	ND	63.4	40-140	12.2	30	
1,4-Dichlorobenzene	1.26	0.41	mg/Kg dry	1.99	ND	63.2	40-140	12.2	30	
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1.99	ND	*	40-140		30	MS-09, R-06
2,4-Dichlorophenol	1.60	0.41	mg/Kg dry	1.99	ND	80.2	30-130	18.0	30	
Diethylphthalate	1.55	0.41	mg/Kg dry	1.99	ND	78.0	40-140	19.8	30	
2,4-Dimethylphenol	1.44	0.41	mg/Kg dry	1.99	ND	72.2	30-130	16.4	30	
Dimethylphthalate	1.65	0.41	mg/Kg dry	1.99	ND	83.1	40-140	18.0	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141804 - SW-846 3546										
Matrix Spike Dup (B141804-MSD1)										
Source: 16B0151-01										
Prepared: 02/10/16 Analyzed: 02/13/16										
4,6-Dinitro-2-methylphenol	0.744	0.41	mg/Kg dry	1.99	ND	37.4	30-130	36.2 *	30	R-06
2,4-Dinitrophenol	0.470	0.79	mg/Kg dry	1.99	ND	23.6 *	30-130	15.8	30	MS-09
2,4-Dinitrotoluene	1.52	0.41	mg/Kg dry	1.99	ND	76.5	40-140	19.2	30	
2,6-Dinitrotoluene	1.64	0.41	mg/Kg dry	1.99	ND	82.5	40-140	17.5	30	
Di-n-octylphthalate	2.06	0.41	mg/Kg dry	1.99	ND	104	40-140	38.7 *	30	R-06
1,2-Diphenylhydrazine (as Azobenzene)	1.34	0.41	mg/Kg dry	1.99	ND	67.2	40-140	28.2	30	
Fluoranthene	1.81	0.20	mg/Kg dry	1.99	1.04	38.5 *	40-140	22.3	30	MS-09
Fluorene	1.55	0.20	mg/Kg dry	1.99	ND	78.0	40-140	20.4	30	
Hexachlorobenzene	1.62	0.41	mg/Kg dry	1.99	ND	81.3	40-140	25.8	30	
Hexachlorobutadiene	1.49	0.41	mg/Kg dry	1.99	ND	75.0	40-140	16.2	30	
Hexachlorocyclopentadiene	0.455	0.41	mg/Kg dry	1.99	ND	22.9 *	30-130	59.3 *	30	MS-09, R-06
Hexachloroethane	1.11	0.41	mg/Kg dry	1.99	ND	55.8	40-140	23.2	30	
Indeno(1,2,3-cd)pyrene	1.55	0.20	mg/Kg dry	1.99	0.490	53.1	40-140	29.1	30	
Isophorone	1.40	0.41	mg/Kg dry	1.99	ND	70.5	40-140	14.5	30	
1-Methylnaphthalene	1.45	0.20	mg/Kg dry	1.99	ND	73.0	40-140	19.3	30	
2-Methylnaphthalene	1.56	0.20	mg/Kg dry	1.99	ND	78.6	40-140	18.5	30	
2-Methylphenol	1.10	0.41	mg/Kg dry	1.99	ND	55.3	30-130	15.0	30	
3/4-Methylphenol	1.39	0.41	mg/Kg dry	1.99	ND	69.8	30-130	16.1	30	
Naphthalene	1.49	0.20	mg/Kg dry	1.99	ND	74.9	40-140	15.4	30	
2-Nitroaniline	1.26	0.41	mg/Kg dry	1.99	ND	63.6	40-140	14.9	30	
3-Nitroaniline	0.580	0.41	mg/Kg dry	1.99	ND	29.2 *	40-140	10.6	30	MS-09
4-Nitroaniline	0.796	0.41	mg/Kg dry	1.99	ND	40.0	40-140	8.87	30	
Nitrobenzene	1.26	0.41	mg/Kg dry	1.99	ND	63.2	40-140	11.6	30	
2-Nitrophenol	1.54	0.41	mg/Kg dry	1.99	ND	77.4	30-130	11.2	30	
4-Nitrophenol	1.47	0.79	mg/Kg dry	1.99	ND	74.0	30-130	9.10	30	
N-Nitrosodimethylamine	0.811	0.41	mg/Kg dry	1.99	ND	40.8	40-140	13.6	30	V-05
N-Nitrosodiphenylamine	1.95	0.41	mg/Kg dry	1.99	ND	98.0	40-140	25.5	30	
N-Nitrosodi-n-propylamine	1.26	0.41	mg/Kg dry	1.99	ND	63.3	40-140	14.8	30	
Pentachloronitrobenzene	1.71	0.41	mg/Kg dry	1.99	ND	86.1	40-140	23.4	30	V-16
Pentachlorophenol	0.940	0.41	mg/Kg dry	1.99	ND	47.2	30-130	21.3	30	
Phenanthrene	1.74	0.20	mg/Kg dry	1.99	0.479	63.5	40-140	22.5	30	
Phenol	1.41	0.41	mg/Kg dry	1.99	ND	70.8	30-130	12.0	30	
Pyrene	2.16	0.20	mg/Kg dry	1.99	1.02	57.3	40-140	8.29	30	
Pyridine	0.547	0.41	mg/Kg dry	1.99	ND	27.5 *	40-140	20.3	30	MS-09
1,2,4,5-Tetrachlorobenzene	1.68	0.41	mg/Kg dry	1.99	ND	84.4	40-140	20.0	30	
1,2,4-Trichlorobenzene	1.48	0.41	mg/Kg dry	1.99	ND	74.2	40-140	15.7	30	
2,4,5-Trichlorophenol	1.54	0.41	mg/Kg dry	1.99	ND	77.7	30-130	18.8	30	
2,4,6-Trichlorophenol	1.66	0.41	mg/Kg dry	1.99	ND	83.4	30-130	17.7	30	
Surrogate: 2-Fluorophenol	5.60		mg/Kg dry	7.96		70.4	30-130			
Surrogate: Phenol-d6	5.60		mg/Kg dry	7.96		70.4	30-130			
Surrogate: Nitrobenzene-d5	2.75		mg/Kg dry	3.98		69.2	30-130			
Surrogate: 2-Fluorobiphenyl	3.33		mg/Kg dry	3.98		83.6	30-130			
Surrogate: 2,4,6-Tribromophenol	7.30		mg/Kg dry	7.96		91.7	30-130			
Surrogate: p-Terphenyl-d14	3.71		mg/Kg dry	3.98		93.2	30-130			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141465 - SW-846 3005A

Blank (B141465-BLK1)

Prepared: 02/04/16 Analyzed: 02/09/16

Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.15	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.050	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.15	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.020	mg/L							

LCS (B141465-BS1)

Prepared: 02/04/16 Analyzed: 02/09/16

Silver	0.417	0.0050	mg/L	0.500		83.3	80-120			
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LCS (B141465-BS2)

Prepared: 02/04/16 Analyzed: 02/09/16

Aluminum	2.03	0.050	mg/L	2.00		101	80-120			
Antimony	2.06	0.050	mg/L	2.00		103	80-120			
Arsenic	1.97	0.010	mg/L	2.00		98.3	80-120			
Barium	1.92	0.050	mg/L	2.00		96.2	80-120			
Beryllium	1.94	0.0040	mg/L	2.00		97.1	80-120			
Cadmium	1.98	0.0040	mg/L	2.00		99.0	80-120			
Calcium	1.98	0.15	mg/L	2.00		99.0	80-120			
Chromium	1.94	0.010	mg/L	2.00		96.8	80-120			
Cobalt	1.91	0.050	mg/L	2.00		95.3	80-120			
Copper	1.83	0.010	mg/L	2.00		91.6	80-120			
Iron	1.94	0.050	mg/L	2.00		97.1	80-120			
Lead	1.89	0.010	mg/L	2.00		94.7	80-120			
Magnesium	2.03	0.15	mg/L	2.00		101	80-120			
Manganese	1.93	0.010	mg/L	2.00		96.7	80-120			
Nickel	1.94	0.010	mg/L	2.00		96.8	80-120			
Potassium	19.3	2.0	mg/L	20.0		96.4	80-120			
Selenium	1.89	0.050	mg/L	2.00		94.6	80-120			
Sodium	2.49	2.0	mg/L	2.00		125 *	80-120			L-02
Thallium	1.97	0.050	mg/L	2.00		98.3	80-120			
Vanadium	1.89	0.010	mg/L	2.00		94.5	80-120			
Zinc	2.00	0.020	mg/L	2.00		100	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141465 - SW-846 3005A

LCS Dup (B141465-BSD1)

Prepared: 02/04/16 Analyzed: 02/09/16

Silver	0.450	0.0050	mg/L	0.500		89.9	80-120	7.64	20	
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LCS Dup (B141465-BSD2)

Prepared: 02/04/16 Analyzed: 02/09/16

Aluminum	2.08	0.050	mg/L	2.00		104	80-120	2.49	20	
Antimony	2.11	0.050	mg/L	2.00		105	80-120	2.08	20	
Arsenic	1.99	0.010	mg/L	2.00		99.4	80-120	1.03	20	
Barium	1.95	0.050	mg/L	2.00		97.5	80-120	1.35	20	
Beryllium	1.98	0.0040	mg/L	2.00		98.8	80-120	1.79	20	
Cadmium	2.03	0.0040	mg/L	2.00		102	80-120	2.72	20	
Calcium	2.00	0.15	mg/L	2.00		100	80-120	1.23	20	
Chromium	1.99	0.010	mg/L	2.00		99.4	80-120	2.59	20	
Cobalt	1.96	0.050	mg/L	2.00		97.8	80-120	2.53	20	
Copper	1.89	0.010	mg/L	2.00		94.4	80-120	2.93	20	
Iron	1.99	0.050	mg/L	2.00		99.5	80-120	2.41	20	
Lead	1.95	0.010	mg/L	2.00		97.5	80-120	2.89	20	
Magnesium	2.08	0.15	mg/L	2.00		104	80-120	2.43	20	
Manganese	1.97	0.010	mg/L	2.00		98.6	80-120	1.90	20	
Nickel	1.99	0.010	mg/L	2.00		99.5	80-120	2.81	20	
Potassium	19.7	2.0	mg/L	20.0		98.6	80-120	2.19	20	
Selenium	1.93	0.050	mg/L	2.00		96.7	80-120	2.17	20	
Sodium	2.59	2.0	mg/L	2.00		130 *	80-120	3.95	20	L-02
Thallium	2.03	0.050	mg/L	2.00		102	80-120	3.35	20	
Vanadium	1.92	0.010	mg/L	2.00		95.8	80-120	1.41	20	
Zinc	2.03	0.020	mg/L	2.00		102	80-120	1.61	20	

Duplicate (B141465-DUP1)

Source: 16B0151-14

Prepared: 02/04/16 Analyzed: 02/09/16

Aluminum	ND	0.050	mg/L		ND		NC	20	
Antimony	ND	0.050	mg/L		ND		NC	20	
Arsenic	ND	0.010	mg/L		ND		NC	20	
Barium	ND	0.050	mg/L		ND		NC	20	
Beryllium	ND	0.0040	mg/L		ND		NC	20	
Cadmium	ND	0.0040	mg/L		ND		NC	20	
Calcium	ND	0.15	mg/L		ND		NC	20	
Chromium	ND	0.010	mg/L		ND		NC	20	
Cobalt	ND	0.050	mg/L		ND		NC	20	
Copper	ND	0.010	mg/L		ND		NC	20	
Iron	ND	0.050	mg/L		0.181		NC	20	
Lead	ND	0.010	mg/L		ND		NC	20	
Magnesium	ND	0.15	mg/L		ND		NC	20	
Manganese	ND	0.010	mg/L		ND		NC	20	
Nickel	ND	0.010	mg/L		ND		NC	20	
Potassium	ND	2.0	mg/L		ND		NC	20	
Selenium	ND	0.050	mg/L		ND		NC	20	
Silver	ND	0.0050	mg/L		ND		NC	20	
Sodium	ND	2.0	mg/L		ND		NC	20	
Thallium	ND	0.050	mg/L		ND		NC	20	
Vanadium	ND	0.010	mg/L		ND		NC	20	
Zinc	ND	0.020	mg/L		ND		NC	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141465 - SW-846 3005A

Matrix Spike (B141465-MS1)

Source: 16B0151-14

Prepared: 02/04/16 Analyzed: 02/09/16

Silver	0.454	0.0050	mg/L	0.500	ND	90.8	75-125			
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Matrix Spike (B141465-MS2)

Source: 16B0151-14

Prepared: 02/04/16 Analyzed: 02/09/16

Aluminum	2.03	0.050	mg/L	2.00	ND	102	75-125			
Antimony	2.06	0.050	mg/L	2.00	ND	103	75-125			
Arsenic	1.96	0.010	mg/L	2.00	ND	98.0	75-125			
Barium	1.92	0.050	mg/L	2.00	ND	96.2	75-125			
Beryllium	1.94	0.0040	mg/L	2.00	ND	97.2	75-125			
Cadmium	1.98	0.0040	mg/L	2.00	ND	98.9	75-125			
Calcium	2.06	0.15	mg/L	2.00	0.0902	98.4	75-125			
Chromium	1.94	0.010	mg/L	2.00	0.00310	96.9	75-125			
Cobalt	1.91	0.050	mg/L	2.00	ND	95.4	75-125			
Copper	1.84	0.010	mg/L	2.00	ND	91.9	75-125			
Iron	1.95	0.050	mg/L	2.00	0.181	88.6	75-125			
Lead	1.90	0.010	mg/L	2.00	ND	94.9	75-125			
Magnesium	2.05	0.15	mg/L	2.00	ND	102	75-125			
Manganese	1.94	0.010	mg/L	2.00	0.00194	96.8	75-125			
Nickel	1.94	0.010	mg/L	2.00	ND	96.9	75-125			
Potassium	19.3	2.0	mg/L	20.0	ND	96.5	75-125			
Selenium	1.89	0.050	mg/L	2.00	ND	94.4	75-125			
Sodium	2.61	2.0	mg/L	2.00	0.558	103	75-125			
Thallium	1.98	0.050	mg/L	2.00	ND	98.8	75-125			
Vanadium	1.89	0.010	mg/L	2.00	ND	94.5	75-125			
Zinc	1.99	0.020	mg/L	2.00	ND	99.4	75-125			

Batch B141478 - SW-846 7470A Prep

Blank (B141478-BLK1)

Prepared: 02/04/16 Analyzed: 02/08/16

Mercury	ND	0.00010	mg/L							
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LCS (B141478-BS1)

Prepared: 02/04/16 Analyzed: 02/08/16

Mercury	0.00216	0.00010	mg/L	0.00200		108	80-120			
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LCS Dup (B141478-BSD1)

Prepared: 02/04/16 Analyzed: 02/08/16

Mercury	0.00216	0.00010	mg/L	0.00200		108	80-120	0.340	20	
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Batch B141851 - SW-846 3050B

Blank (B141851-BLK1)

Prepared: 02/10/16 Analyzed: 02/15/16

Aluminum	3.3	2.5	mg/Kg wet							B-07
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Calcium	ND	7.5	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Cobalt	ND	2.5	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Iron	ND	2.5	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Magnesium	ND	7.5	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141851 - SW-846 3050B

Blank (B141851-BLK1)

Prepared: 02/10/16 Analyzed: 02/15/16

Potassium	ND	100	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Sodium	ND	100	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

LCS (B141851-BS1)

Prepared: 02/10/16 Analyzed: 02/15/16

Aluminum	8500	4.7	mg/Kg wet	7930		107	51.2-148.1			B
Antimony	84.5	4.7	mg/Kg wet	105		80.5	0-210.3			
Arsenic	105	4.7	mg/Kg wet	98.5		106	77.8-122.1			
Barium	336	4.7	mg/Kg wet	308		109	82-117.4			
Beryllium	72.2	0.47	mg/Kg wet	66.0		109	82.3-117.7			
Cadmium	150	0.47	mg/Kg wet	146		103	81.9-118.2			
Calcium	6880	14	mg/Kg wet	6610		104	81.9-118.2			
Chromium	195	0.94	mg/Kg wet	182		107	78.7-120.6			
Cobalt	168	4.7	mg/Kg wet	162		104	83-116.7			
Copper	109	0.94	mg/Kg wet	106		103	80.4-119.6			
Iron	14800	4.7	mg/Kg wet	14400		103	46.8-153			
Lead	130	1.4	mg/Kg wet	130		99.8	82.4-117.8			
Magnesium	2880	14	mg/Kg wet	2640		109	75.5-124.2			
Manganese	423	0.94	mg/Kg wet	410		103	80.8-119.2			
Nickel	152	0.94	mg/Kg wet	149		102	82.2-117.8			
Potassium	2970	190	mg/Kg wet	2550		117	69.9-130.1			
Selenium	155	9.4	mg/Kg wet	154		100	77.1-122.3			
Silver	39.7	0.94	mg/Kg wet	40.9		97.0	74.3-125.4			
Sodium	2600	190	mg/Kg wet	2480		105	69.9-130.5			
Thallium	189	4.7	mg/Kg wet	175		108	78.2-121.6			
Vanadium	104	1.9	mg/Kg wet	96.7		108	64.8-135.2			
Zinc	210	1.9	mg/Kg wet	191		110	79.7-120.8			

LCS Dup (B141851-BSD1)

Prepared: 02/10/16 Analyzed: 02/15/16

Aluminum	8440	4.4	mg/Kg wet	7930		106	51.2-148.1	0.668	30	B
Antimony	83.4	4.4	mg/Kg wet	105		79.4	0-210.3	1.40	30	
Arsenic	103	4.4	mg/Kg wet	98.5		105	77.8-122.1	1.23	30	
Barium	331	4.4	mg/Kg wet	308		107	82-117.4	1.59	30	
Beryllium	72.9	0.44	mg/Kg wet	66.0		110	82.3-117.7	0.987	30	
Cadmium	156	0.44	mg/Kg wet	146		107	81.9-118.2	4.02	30	
Calcium	6970	13	mg/Kg wet	6610		106	81.9-118.2	1.43	30	
Chromium	194	0.88	mg/Kg wet	182		107	78.7-120.6	0.386	30	
Cobalt	173	4.4	mg/Kg wet	162		107	83-116.7	2.85	30	
Copper	107	0.88	mg/Kg wet	106		101	80.4-119.6	1.98	30	
Iron	14200	4.4	mg/Kg wet	14400		98.4	46.8-153	4.16	30	
Lead	128	1.3	mg/Kg wet	130		98.3	82.4-117.8	1.51	30	
Magnesium	2810	13	mg/Kg wet	2640		106	75.5-124.2	2.36	30	
Manganese	426	0.88	mg/Kg wet	410		104	80.8-119.2	0.730	30	
Nickel	157	0.88	mg/Kg wet	149		106	82.2-117.8	3.41	30	
Potassium	2910	180	mg/Kg wet	2550		114	69.9-130.1	2.34	30	
Selenium	154	8.8	mg/Kg wet	154		100	77.1-122.3	0.333	30	
Silver	39.5	0.88	mg/Kg wet	40.9		96.6	74.3-125.4	0.324	30	
Sodium	2820	180	mg/Kg wet	2480		114	69.9-130.5	8.21	30	
Thallium	196	4.4	mg/Kg wet	175		112	78.2-121.6	3.82	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141851 - SW-846 3050B										
LCS Dup (B141851-BSD1)										
					Prepared: 02/10/16 Analyzed: 02/15/16					
Vanadium	104	1.8	mg/Kg wet	96.7		108	64.8-135.2	0.261	30	
Zinc	209	1.8	mg/Kg wet	191		109	79.7-120.8	0.571	30	
Duplicate (B141851-DUP1)										
Source: 16B0151-01			Prepared: 02/10/16 Analyzed: 02/15/16							
Aluminum	7430	2.9	mg/Kg dry		8460			12.9	35	B
Antimony	ND	2.9	mg/Kg dry		ND			NC	35	
Arsenic	ND	2.9	mg/Kg dry		ND			NC	35	
Barium	59.0	2.9	mg/Kg dry		78.4			28.2	35	
Beryllium	ND	0.29	mg/Kg dry		ND			NC	35	
Cadmium	0.454	0.29	mg/Kg dry		0.457			0.750	35	
Calcium	52300	86	mg/Kg dry		70700			29.9	35	
Chromium	15.6	0.57	mg/Kg dry		17.7			12.5	35	
Cobalt	ND	2.9	mg/Kg dry		ND			NC	35	
Copper	34.8	0.57	mg/Kg dry		35.7			2.65	35	
Iron	20400	2.9	mg/Kg dry		14100			36.7 *	35	R-02
Lead	73.0	0.86	mg/Kg dry		87.2			17.7	35	
Magnesium	2090	8.6	mg/Kg dry		3180			41.5 *	35	R-02
Manganese	327	0.57	mg/Kg dry		422			25.3	35	
Nickel	14.4	0.57	mg/Kg dry		12.3			16.1	35	
Potassium	649	110	mg/Kg dry		858			27.8	35	
Selenium	ND	5.7	mg/Kg dry		ND			NC	35	
Silver	ND	0.57	mg/Kg dry		ND			NC	35	
Sodium	118	110	mg/Kg dry		ND			NC	35	
Thallium	ND	2.9	mg/Kg dry		ND			NC	35	
Vanadium	17.5	1.1	mg/Kg dry		18.9			7.60	35	
Zinc	124	1.1	mg/Kg dry		127			2.33	35	
MRL Check (B141851-MRL1)										
					Prepared: 02/10/16 Analyzed: 02/15/16					
Lead	0.822	0.69	mg/Kg wet	0.690		119	80-120			
Matrix Spike (B141851-MS1)										
Source: 16B0151-01			Prepared: 02/10/16 Analyzed: 02/15/16							
Aluminum	8810	2.9	mg/Kg dry	118	8460	302 *	75-125			B, MS-19
Antimony	70.7	2.9	mg/Kg dry	118	1.86	58.5 *	75-125			MS-07A
Arsenic	133	2.9	mg/Kg dry	118	ND	113	75-125			
Barium	191	2.9	mg/Kg dry	118	78.4	96.1	75-125			
Beryllium	131	0.29	mg/Kg dry	118	ND	111	75-125			
Cadmium	129	0.29	mg/Kg dry	118	0.457	109	75-125			
Calcium	70200	88	mg/Kg dry	118	70700	-445 *	75-125			MS-19
Chromium	142	0.59	mg/Kg dry	118	17.7	105	75-125			
Cobalt	122	2.9	mg/Kg dry	118	2.79	102	75-125			
Copper	158	0.59	mg/Kg dry	118	35.7	104	75-125			
Iron	23600	2.9	mg/Kg dry	118	14100	8050 *	75-125			MS-19
Lead	210	0.88	mg/Kg dry	118	87.2	105	75-125			
Magnesium	2720	8.8	mg/Kg dry	118	3180	-388 *	75-125			MS-19
Manganese	485	0.59	mg/Kg dry	118	422	53.2 *	75-125			MS-12
Nickel	128	0.59	mg/Kg dry	118	12.3	98.0	75-125			
Potassium	2190	120	mg/Kg dry	1180	858	113	75-125			
Selenium	162	5.9	mg/Kg dry	118	ND	138 *	75-125			MS-12
Silver	119	0.59	mg/Kg dry	118	ND	101	75-125			
Sodium	266	120	mg/Kg dry	118	109	133 *	75-125			MS-12
Thallium	118	2.9	mg/Kg dry	118	ND	100	75-125			
Vanadium	146	1.2	mg/Kg dry	118	18.9	108	75-125			
Zinc	254	1.2	mg/Kg dry	118	127	108	75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B141851 - SW-846 3050B										
Matrix Spike Dup (B141851-MSD1)										
		Source: 16B0151-01			Prepared: 02/10/16 Analyzed: 02/15/16					
Aluminum	7750	3.0	mg/Kg dry	119	8460	-595	* 75-125	12.8	35	B, MS-19
Antimony	74.1	3.0	mg/Kg dry	119	1.86	60.9	* 75-125	4.68	35	MS-07A
Arsenic	139	3.0	mg/Kg dry	119	ND	117	75-125	4.46	35	
Barium	189	3.0	mg/Kg dry	119	78.4	93.7	75-125	1.06	35	
Beryllium	134	0.30	mg/Kg dry	119	ND	113	75-125	2.49	35	
Cadmium	133	0.30	mg/Kg dry	119	0.457	112	75-125	3.20	35	
Calcium	107000	89	mg/Kg dry	119	70700	30900	* 75-125	41.8	* 35	MS-19
Chromium	142	0.59	mg/Kg dry	119	17.7	105	75-125	0.214	35	
Cobalt	124	3.0	mg/Kg dry	119	2.79	102	75-125	1.43	35	
Copper	156	0.59	mg/Kg dry	119	35.7	102	75-125	0.906	35	
Iron	13900	3.0	mg/Kg dry	119	14100	-190	* 75-125	51.8	* 35	MS-19
Lead	193	0.89	mg/Kg dry	119	87.2	89.0	75-125	8.63	35	
Magnesium	3420	8.9	mg/Kg dry	119	3180	204	* 75-125	22.8	35	MS-19
Manganese	590	0.59	mg/Kg dry	119	422	142	* 75-125	19.7	35	MS-12
Nickel	129	0.59	mg/Kg dry	119	12.3	98.5	75-125	1.13	35	
Potassium	2290	120	mg/Kg dry	1190	858	121	75-125	4.40	35	
Selenium	186	5.9	mg/Kg dry	119	ND	157	* 75-125	13.8	35	MS-12
Silver	125	0.59	mg/Kg dry	119	ND	106	75-125	5.52	35	
Sodium	265	120	mg/Kg dry	119	109	131	* 75-125	0.168	35	MS-12
Thallium	131	3.0	mg/Kg dry	119	ND	111	75-125	10.7	35	
Vanadium	145	1.2	mg/Kg dry	119	18.9	106	75-125	0.635	35	
Zinc	236	1.2	mg/Kg dry	119	127	92.3	75-125	7.05	35	

Batch B141852 - SW-846 7471

Blank (B141852-BLK1)										
					Prepared: 02/10/16 Analyzed: 02/12/16					
Mercury	ND	0.025	mg/Kg wet							
LCS (B141852-BS1)										
					Prepared: 02/10/16 Analyzed: 02/16/16					
Mercury	7.56	0.79	mg/Kg wet	7.10		107	73.7-126.3			
LCS Dup (B141852-BSD1)										
					Prepared: 02/10/16 Analyzed: 02/16/16					
Mercury	8.57	0.83	mg/Kg wet	7.10		121	73.7-126.3	12.5	30	
Duplicate (B141852-DUP1)										
		Source: 16B0151-01			Prepared: 02/10/16 Analyzed: 02/12/16					
Mercury	0.204	0.029	mg/Kg dry		0.384			61.1	* 35	R-02
Matrix Spike (B141852-MS1)										
		Source: 16B0151-01			Prepared: 02/10/16 Analyzed: 02/12/16					
Mercury	0.488	0.028	mg/Kg dry	0.187	0.384	56.1	* 75-125			MS-07
Matrix Spike Dup (B141852-MSD1)										
		Source: 16B0151-01			Prepared: 02/10/16 Analyzed: 02/12/16					
Mercury	0.486	0.028	mg/Kg dry	0.185	0.384	55.6	* 75-125	0.411	35	MS-07

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B141986 - % Solids

Duplicate (B141986-DUP1)

Source: 16B0151-01

Prepared: 02/11/16 Analyzed: 02/12/16

% Solids	85.3		% Wt			83.8		1.77	20	
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FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
 - ND Not Detected
 - RL Reporting Limit
 - DL Method Detection Limit
 - MCL Maximum Contaminant Level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- No results have been blank subtracted unless specified in the case narrative section.
- B Analyte is found in the associated blank as well as in the sample.
 - B-07 Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
 - J Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
 - L-02 Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
 - L-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
 - L-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - MS-07 Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
 - MS-07A Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
 - MS-09 Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
 - MS-12 Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
 - MS-19 Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
 - MS-22 Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
 - MS-23 Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
 - MS-24 Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
 - PR-03 Sample preserved in the laboratory, not in the field as required by the method.
 - PR-15 According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.
 - R-02 Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
 - R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
 - R-06 Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
 - RL-11 Elevated reporting limit due to high concentration of target compounds.
 - RL-12 Elevated reporting limit due to matrix interference.
 - S-07 One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
 - V-04 Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
 - V-05 Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C in Soil</i>	
Aluminum	CT,NH,NY,ME,VA
Antimony	CT,NH,NY,ME,VA
Arsenic	CT,NH,NY,ME,VA
Barium	CT,NH,NY,ME,VA
Beryllium	CT,NH,NY,ME,VA
Cadmium	CT,NH,NY,ME,VA
Calcium	CT,NH,NY,ME,VA
Chromium	CT,NH,NY,ME,VA
Cobalt	CT,NH,NY,ME,VA
Copper	CT,NH,NY,ME,VA
Iron	CT,NH,NY,ME,VA
Lead	CT,NH,NY,AIHA,ME,VA
Magnesium	CT,NH,NY,ME,VA
Manganese	CT,NH,NY,ME,VA
Nickel	CT,NH,NY,ME,VA
Potassium	CT,NH,NY,ME,VA
Selenium	CT,NH,NY,ME,VA
Silver	CT,NH,NY,ME,VA
Sodium	CT,NH,NY,ME,VA
Thallium	CT,NH,NY,ME,VA
Vanadium	CT,NH,NY,ME,VA
Zinc	CT,NH,NY,ME,VA
<i>SW-846 6010C in Water</i>	
Aluminum	CT,NH,NY,ME,VA
Antimony	CT,NH,NY,ME,VA
Arsenic	CT,NH,NY,ME,VA,RI
Barium	CT,NH,NY,ME,VA
Beryllium	CT,NH,NY,ME,VA
Cadmium	CT,NH,NY,ME,VA
Calcium	CT,NH,NY,ME,VA
Chromium	CT,NH,NY,ME,VA
Cobalt	CT,NH,NY,ME,VA
Copper	CT,NH,NY,ME,VA
Iron	CT,NH,NY,ME,VA
Lead	CT,NH,NY,ME,VA
Magnesium	CT,NH,NY,ME,VA
Manganese	CT,NH,NY,ME,VA
Nickel	CT,NH,NY,ME,VA
Potassium	CT,NH,NY,ME,VA
Selenium	CT,NH,NY,ME,VA
Silver	CT,NH,NY,ME,VA
Sodium	CT,NH,NY,ME,VA
Thallium	CT,NH,NY,VA
Vanadium	CT,NH,NY,ME,VA
Zinc	CT,NH,NY,ME,VA

SW-846 7470A in Water

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
Dibromomethane	NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
<i>SW-846 8260C in Water</i>	
Acetone	CT,NY,ME,NH,VA
Acrylonitrile	CT,NY,ME,NH,VA
tert-Amyl Methyl Ether (TAME)	NY,ME,NH,VA
Benzene	CT,NY,ME,NH,VA
Bromochloromethane	NY,ME,NH,VA
Bromodichloromethane	CT,NY,ME,NH,VA
Bromoform	CT,NY,ME,NH,VA
Bromomethane	CT,NY,ME,NH,VA
2-Butanone (MEK)	CT,NY,ME,NH,VA
tert-Butyl Alcohol (TBA)	NY,ME,NH,VA
n-Butylbenzene	NY,ME,VA
sec-Butylbenzene	NY,ME,VA
tert-Butylbenzene	NY,ME,VA
tert-Butyl Ethyl Ether (TBEE)	NY,ME,NH,VA
Carbon Disulfide	CT,NY,ME,NH,VA
Carbon Tetrachloride	CT,NY,ME,NH,VA
Chlorobenzene	CT,NY,ME,NH,VA
Chlorodibromomethane	CT,NY,ME,NH,VA
Chloroethane	CT,NY,ME,NH,VA
Chloroform	CT,NY,ME,NH,VA
Chloromethane	CT,NY,ME,NH,VA
2-Chlorotoluene	NY,ME,NH,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
4-Chlorotoluene	NY,ME,NH,VA
Dibromomethane	NY,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,ME,NH,VA
trans-1,4-Dichloro-2-butene	NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,NH,VA
1,1-Dichloroethane	CT,NY,ME,NH,VA
1,2-Dichloroethane	CT,NY,ME,NH,VA
1,1-Dichloroethylene	CT,NY,ME,NH,VA
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NY,ME,NH,VA
1,2-Dichloropropane	CT,NY,ME,NH,VA
1,3-Dichloropropane	NY,ME,VA
2,2-Dichloropropane	NY,ME,NH,VA
1,1-Dichloropropene	NY,ME,NH,VA
cis-1,3-Dichloropropene	CT,NY,ME,NH,VA
trans-1,3-Dichloropropene	CT,NY,ME,NH,VA
Diisopropyl Ether (DIPE)	NY,ME,NH,VA
Ethylbenzene	CT,NY,ME,NH,VA
Hexachlorobutadiene	CT,NY,ME,NH,VA
2-Hexanone (MBK)	CT,NY,ME,NH,VA
Isopropylbenzene (Cumene)	NY,ME,VA
p-Isopropyltoluene (p-Cymene)	CT,NY,ME,NH,VA
Methyl tert-Butyl Ether (MTBE)	CT,NY,ME,NH,VA
Methylene Chloride	CT,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA
Naphthalene	NY,ME,NH,VA
n-Propylbenzene	CT,NY,ME,NH,VA
Styrene	CT,NY,ME,NH,VA
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA
Tetrachloroethylene	CT,NY,ME,NH,VA
Toluene	CT,NY,ME,NH,VA
1,2,3-Trichlorobenzene	NY,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA
1,1,2-Trichloroethane	CT,NY,ME,NH,VA
Trichloroethylene	CT,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA
1,2,3-Trichloropropane	NY,ME,NH,VA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA
1,2,4-Trimethylbenzene	NY,ME,VA
1,3,5-Trimethylbenzene	NY,ME,VA
Vinyl Chloride	CT,NY,ME,NH,VA
m+p Xylene	CT,NY,ME,NH,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
o-Xylene	CT,NY,ME,NH,VA
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine (as Azobenzene)	NC
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2017
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com



Company Name: EA Engineering
Address: 6717 Brooklawn Pkwy, Ste 104
Syracuse NY 13211
Telephone: 315 431-4610
Project #: 1490730
Client PO#

Attention: Megan Miller
Project Location: Sewall's Island
Sampled By: F. Cummings / A. Kohn
DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
Email: miller@contest.com
Format: PDF EXCEL GIS
 OTHER Enhanced Data Package v.3

Project Proposal Provided? (for billing purposes)

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Ending Date/Time	Matrix Code	Dunc Code	Composite	Grab	# of Containers	** Preservation	*** Container Code
		Beginning Date/Time	Date/Time								
01	SS-66-EA-0-0.5'	2/2/14	1000	3	S	U	3	4	1	I	A
02	SS-67-EA-0-0.5'		1011	4			4		1	I	A
03	SS-68-EA-0-0.5'		1021						1	I	A
04	SS-69-EA-0-0.5'		1035						1	I	A
05	SS-70-EA-0-0.5'		1045						1	I	A
06	SS-71-EA-0-0.5'		1100						1	I	A
07	SS-72-EA-0-0.5'		1110						1	I	A
08	SS-73-EA-0-0.5'		1120						1	I	A
09	SS-74-EA-0-0.5'		1140						1	I	A
10	SS-75-EA-0-0.5'		1150						1	I	A

Comments: Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) *Emily Cummings* Date/Time: _____
 Received by: (signature) *Megan Miller* Date/Time: 2/11/14 10:00
 Relinquished by: (signature) _____ Date/Time: _____
 Received by: (signature) _____ Date/Time: _____

Turnaround: 5-Day 7 Day 10-Day or RUSH [†]
 24 hr 48 hr
 72 hr 4 day
† Require lab approval

Program Information/Regulatory
 NY TOGS NY Restricted Use NY Part 375
 AWQ STDs NY Unrestricted Use NY CP-51
 NYC Sewer Discharge Other:
 Part 360 GW (Landfill) Other:
 Deliverables: ASP-A Equis (1 file) Other:
 ASP-B Equis (4 file)

URNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT



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CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

Page 2 of 2

Company Name: EA Engineering
 Address: 6712 Broadview Pkwy Ste 104
 Syracuse NY 13211

Attention: Mega Miller
 Project Location: Sewall's Island
 Sampled By: A Kohn / E Cummings

Telephone: 315-431-4610
 Project #: 1490730
 Client PO#: _____
 DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
 Fax #: _____
 Email: mmiller@east.com
 Format: PDF EXCEL GIS
 OTHER NYSEQUISED "Enhanced Data Package"

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	Date	Time	Matrix Code	Concentration	Code Box
		Beginning Date/Time	Ending Date/Time							
11	SS-76-EA-0-0.5	2/2/16	12:15	1	1	S				
12	SS-77-EA-0-0.5	2/2/16	12:25	1	1	S				
13	SS-DUP-EA	2/2/16	—	1	1	S				
14	RB-020216	2/2/16	12:00	5	5	W				
15	TB-020216	2/2/16	12:10	2	2	W				

Project Proposal Provided? (for billing purposes)
 Yes No
 Date: _____

Con-Test Lab ID	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Date	Time	Matrix Code	Concentration	Code Box
11	SS-76-EA-0-0.5	2/2/16	12:15	1	1	S				
12	SS-77-EA-0-0.5	2/2/16	12:25	1	1	S				
13	SS-DUP-EA	2/2/16	—	1	1	S				
14	RB-020216	2/2/16	12:00	5	5	W				
15	TB-020216	2/2/16	12:10	2	2	W				

Comments: _____
 Relinquished by: (signature) _____
 Received by: (signature) _____
 Inquired by: (signature) _____
 Date/Time: 2/2/16
 Date/Time: 10:00
 Date/Time: _____
 Date/Time: _____

Con-Test Lab ID	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Date	Time	Matrix Code	Concentration	Code Box
11	SS-76-EA-0-0.5	2/2/16	12:15	1	1	S				
12	SS-77-EA-0-0.5	2/2/16	12:25	1	1	S				
13	SS-DUP-EA	2/2/16	—	1	1	S				
14	RB-020216	2/2/16	12:00	5	5	W				
15	TB-020216	2/2/16	12:10	2	2	W				

Turnaround [†]
 7-Day
 10-Day
 Other
 RUSH [†]
 24-Hr 48-Hr
 72-Hr 14-Day
 Require lab approval

Detection Limit Requirements
 Massachusetts: _____
 Connecticut: _____
 Other: _____

Is your project MCP or RCP?
 MCP Form Required
 RCP Form Required
 MA State DW Form Required PWSID # _____
 NELAC & AIHA-LAP, LLC
 Accredited
 WBE/DBE Certifier

URNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: EA Engineering RECEIVED BY: RLF DATE: 2/3/2016

1) Was the chain(s) of custody relinquished and signed? Yes X No No COC Incl.

2) Does the chain agree with the samples? Yes X No

If not, explain:

3) Are all the samples in good condition? Yes X No

If not, explain:

4) How were the samples received:

On Ice X Direct from Sampling Ambient In Cooler(s) X

Were the samples received in Temperature Compliance of (2-6°C)? Yes X No N/A

Temperature °C by Temp blank Temperature °C by Temp gun 5

5) Are there Dissolved samples for the lab to filter? Yes No X

Who was notified Date Time

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No X

Who was notified Date Time

7) Location where samples are stored:

Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature:

8) Do all samples have the proper Acid pH: Yes X No N/A

9) Do all samples have the proper Base pH: Yes No N/A X

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes N/A X

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber	1		16 oz amber	
500 mL Amber			8 oz amber/clear jar	15
250 mL Amber (8oz amber)			4 oz amber/clear jar	15
1 Liter Plastic			2 oz amber/clear jar	
500 mL Plastic			Plastic Bag / Ziploc	
250 mL plastic	1		SOC Kit	
40 mL Vial - type listed below	5		Perchlorate Kit	
Colisure / bacteria bottle			Flashpoint bottle	
Dissolved Oxygen bottle			Other glass jar	
Encore			Other	

40 mL vials: # HCl <u>5</u> # Methanol <u> </u>	Time and Date Frozen:
Doc# 277 # Bisulfate <u> </u> # DI Water <u> </u>	
Rev. 4 August 2013 # Thiosulfate <u> </u> Unpreserved <u> </u>	

Login Sample Receipt Checklist
(Rejection Criteria Listing - Using Sample Acceptance Policy)
Any False statement will be brought to the attention of Client

<u>Question</u>	<u>Answer (True/False)</u>		<u>Comment</u>
	T/F/NA		
1) The cooler's custody seal, if present, is intact.	T		
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	T		
4) Cooler Temperature is acceptable.	T		
5) Cooler Temperature is recorded.	T		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC.	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.	N/A		
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used.	T		
16) Proper collection media used.	T		
17) No headspace sample bottles are completely filled.	T		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.	T		
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T		
21) Samples do not require splitting or compositing.	T		

Doc #277 Rev. 4 August 2013 **Who notified of False statements?**
Log-In Technician Initials: RLF

Date/Time:
Date/Time: 2/3/16 10:02