

CONSTRUCTION COMPLETION REPORT
IRM-2 FORMER ELECTRICAL SUBSTATION
PHILIPS LIGHTING COMPANY BATH FACILITY
BATH, STEUBEN COUNTY, NEW YORK

by Haley & Aldrich of New York
Rochester, New York

for New York State Department of Environmental Conservation
Avon, New York

File No. 34201-313
6 April 2016





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6 April 2016
File No. 34201-313

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, New York 14414

Attention: Mr. Greg MacLean

Subject: Construction Completion Report
IRM-2 Former Electrical Substation
Philips Lighting Company Bath Facility
7256 State Route 54
Bath, New York
BCP Site #C851044

Dear Mr. MacLean:

On behalf of Philips Electronics North America Corporation (PENAC), Haley & Aldrich of New York (Haley & Aldrich) has prepared the enclosed Construction Completion Report (CCR) for Interim Remedial Measure No. 2 (IRM-2) Former Electrical Substation at the Philips Lighting Company facility located in Bath, New York (Site). The CCR documents the removal and off-site disposal of the former electrical transformer pads and gravel sub-base in IRM-2; the activities were performed in accordance with the NYSDEC-approved IRM-2 Work Plan. This document is being submitted in accordance with the Brownfield Cleanup Agreement (BCA) for Site #C851044 between the New York State Department of Environmental Conservation (NYSDEC) and PENAC, and provides information on interim remedial measures completed at IRM-2.

6 April 2016

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If you have any questions or comments regarding this document, please do not hesitate to contact us.

Sincerely yours,

HALEY & ALDRICH OF NEW YORK

A blue ink signature of W. Thomas West, featuring a stylized 'W' and 'T' followed by a long horizontal stroke.

W. Thomas West
Vice President

A blue ink signature of Ben Drayn, featuring a stylized 'B' and 'D' followed by a horizontal stroke.

Ben Drayn
Technical Specialist

cc: D. Weeks, Philips
D. Murphy, Philips
R. Farley, Philips
J. McCreary, Nixon Peabody

J. Mahoney, NYSDEC
J. Deming, NYSDOH
K. Anders, NYSDOH

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1. Introduction

Philips Electronics North America Corporation (PENAC) is currently completing Remedial Investigation (RI) activities at the Bath facility (see Figure 1) in accordance with the NYSDEC-approved Remedial Investigation Work Plan (RIWP)¹. The RI is being conducted to further evaluate the environmental conditions at the Site under the Brownfield Cleanup Program and pursuant to a Brownfield Cleanup Agreement entered into between the New York State Department of Environmental Conservation and PENAC dated April 2014. As part of the RIWP, six (6) areas at the Site were identified where material, equipment, and/or structures were present that limited or prevented the collection of environmental samples without removing the material/equipment/structures. As a result, these six (6) areas were targeted for interim remedial measures (IRMs), including IRM-2, which contained concrete pads, equipment foundations, and sub-base gravels in a former electrical substation (see Figures 2 and 3).

1.1 BACKGROUND

The facility is provided electrical service by New York State Electric and Gas (NYSEG) and the main electrical service enters the property on the north side of the Site. The overhead electrical transmission lines deliver power to a bank of three (3) electrical transformers owned and operated by NYSEG. In 2009, the electrical service to the Site was upgraded and a new transformer substation was installed by NYSEG. The new service replaced the older, original electrical substation built by Westinghouse at the site in 1952. The older transformers along with the steel lattice work that supported strain bus wires and other electrical apparatus were removed from the plant as part of the facility decommissioning process in 2014. However, the concrete bases and sub-base gravel were not removed during the closure of the electrical units.

1.2 PURPOSE

This IRM was designed to remove the concrete pads and sub-base gravel from the former electrical substation to permit sampling of soils in this area of the site after the material had been removed.

¹ A RIWP was prepared and submitted to the NYSDEC in May 2014. The NYSDEC approved the RIWP in a letter dated 9 December 2014. The RIWP included reference to completing IRMs in six areas, including IRM-2. Separate IRM Work Plans were developed and conditionally approved by the NYSDEC in a letter dated 6 November 2015.

2. IRM Activities

The work at IRM-2 was completed between 16 November 2015 and 13 January 2016 and included site preparation, removal and disposal of concrete and sub-base gravels, post-removal sampling, and site restoration. The work was completed in accordance to the NYSDEC-approved IRM-2 Work Plan that had been developed for the project. The significant milestones during the IRM-2 construction work included the following:

- 16 November 2015: Mobilization of equipment and personnel to the site;
- 17 November 2015: Commencement of site preparation activities (e.g. silt fence installation, construction of decontamination pad, survey of pre-construction conditions, etc.);
- 18-24 November 2015: Removal and off-site disposal of concrete and gravel;
- 24, 25, & 30 November 2015: Collection of post-removal samples;
- 8 & 9 December 2015: Placement of demarcation fabric and backfilling with imported bank run gravel and topsoil;
- 12 January 2016: Placement of additional topsoil, seeding and mulching; and
- 12 and 13 January 2016: Decontamination and demobilization of equipment for offsite removal.

The IRM-2 project team was comprised of various parties with the following roles and responsibilities:

- Haley & Aldrich Construction Services (HCS): Prime Remedial Contractor;
- Haley & Aldrich of New York (HANY): Professional Engineering Oversight;
- Dickson Trucking: Trucking Contractor;
- Hoffman Land Surveying & Geomatics (HLSG): Professional Surveyor; and
- Alpha Analytical (Alpha): ELAP-certified Analytical Laboratory.

The following sections provide a summary and additional detail of the construction activities completed at IRM-2. A photo log is included in Appendix A, which includes photographs of removal activities, placement of the demarcation layer, backfilling activities, and restoration.

2.1 MOBILIZATION AND SITE PREP

Equipment, material and labor were mobilized to the site on 16 and 17 November 2015.

Prior to implementing intrusive construction work at IRM-2, the following activities were conducted:

- **Decontamination Area Construction:** A decontamination pad was constructed, adjacent to the IRM-5 work area, using imported bank run gravel, poly sheeting, and plywood decking.
- **Location Control Survey:** HLSG surveyed the pre-construction elevations and established control points demarcating the approximate extent of the work area at IRM-2. Figure 3 shows the pre-construction topography at IRM-2. Subsequent surveys of the IRM-2 construction activities following excavation of the material, documenting post-removal sampling location, and final grade restoration elevations are described in the sections below.

- <

times when construction work did not involve disturbance of soil, gravel, or concrete material or was not ground-intrusive. During the IRM-2 work, CAMP monitoring was completed between 18 November 2015 and 12 January 2016.

The Community Air Monitoring data is included as Appendix B. The dataset is inclusive of field activities associated with all of the IRMs (IRMs 2 through 6), and includes the air monitoring results from the start of ground-intrusive field activities on 18 November 2015 through the close of ground-intrusive activities on 12 January 2016. In accordance with the New York State Department of Health Generic Community Air Monitoring Plan, (included in Appendix A of the NYSDEC-approved IRM-2 Work Plan), the following action levels were used during ground-intrusive field activities:

- **Total Organic Vapors:** An exceedance of 5 parts per million (ppm) above background for the 15-minute average concentration of total organic vapors at the downwind perimeter of the work area. For the purposes of IRM-2 field activities, the air monitoring equipment was programmed to produce an alert if the 15-minute average concentration of total organic vapors at the downwind perimeter reached 5 ppm, regardless of the concentration of total organic vapors at the upwind perimeter.
- **Respirable Dust:** An exceedance of 100 micrograms per cubic meter (mcg/m^3) above background for the 15-minute average concentration of dust at the downwind perimeter of the work area.

As documented in Appendix B, the air monitoring completed during the entire IRM field work did not result in exceedances of action levels recorded during the construction activities at IRM-2. Appendix B also includes a summary of issues encountered with the Community Air Monitoring equipment during the monitoring and documents the steps taken to resolve the equipment issues.

2.4 DEMOBILIZATION

Demobilization of equipment and construction personnel was completed by 13 January 2015.

3.1 POST-REMOVAL SOIL SAMPLE RESULTS

Low level PCBs, including several Aroclor isomers (principally Aroclor 1248 and 1254) were detected in eighteen (18) of the thirty-seven (37) post-removal samples. Concentrations of PCBs detected in the post-removal samples ranged between 0.00922 and 0.0802 milligram per kilogram (mg/kg) and none of the individual or total PCB concentrations exceeded the Part 375 Residential Soil Cleanup Objective (SCO) of 1 mg/kg.

Of the five (5) surface samples that were submitted for analysis of VOCs, metals, SVOCs, pesticides, and cyanide, most of the analyzed compounds were below laboratory detection limits and the metals concentrations detected were consistent with naturally occurring ranges. None of the analyzed constituents were detected above the Part 375 Residential and/or Protection of Groundwater SCO, with the exception of:

- The SVOC Indeno(1,2,3-cd)pyrene, which was detected in SB-IRM2-101-SURF at 0.51 milligrams per kilogram (mg/kg). This detection is just slightly above the Part 375 Residential SCO of 0.5 mg/kg, and well below the Part 375 Industrial and Protection of Groundwater SCOs of 11 mg/kg and 8.2 mg/kg, respectively; and
- Arsenic, which was detected in SB-IRM2-101-SURF at 17 mg/kg, which is above the Part 375 Residential and Protection of Groundwater SCO of 16 mg/kg.

Of the five (5) sub-surface samples that were submitted for analysis of VOCs and metals, as well as other parameters including SVOCs, pesticides, and cyanide, none of the analyzed constituents were detected above Part 375 Residential and/or Protection of Groundwater SCOs, with the exception of:

- Arsenic, which was detected in SB-IRM2-101-SUBS at 19 mg/kg, which is above the Part 375 Residential and Protection of Groundwater SCO of 16 mg/kg.

The detection of indeno (1,2,3-cd)pyrene in SB-IRM2-101-SURF, while just slightly above the Part 375 Residential SCOs, may be attributable to asphalt paving present in parking areas and roadways on the developed portion of the property, including the site road that is located immediately adjacent to the IRM-2 area.

Arsenic has been detected above the Part 375 Residential and Protection of Groundwater SCO of 16 mg/kg in a number of the soil samples collected at the site during the Remedial Investigation (RI) activities. The arsenic levels in the RI samples, as well as in the surface and sub-surface samples at location SB-IRM2-101, may be attributable to local variations in the naturally occurring concentrations of arsenic in the soils at the site; most of the RI samples that exceed the restricted residential and Protection of Groundwater SCOs are just slightly above the numerical standard and included samples with arsenic concentrations generally less than 20 mg/kg.

The analytical reports are included as Appendix E, and the results of the import material sampling are summarized in Table III. The data was compared to the Residential Use criteria in DER-10 Appendix 5, “Allowable Constituent Levels for Imported Fill or Soil”. As summarized on Table III, the results of the sampling of the imported material were below DER-10 allowable levels and the quality of the topsoil and bank run gravel was considered appropriate and acceptable for use in site restoration activities.

4.3 PLACEMENT OF IMPORT COVER MATERIAL

Upon receipt of the post-removal sampling results, and after the demarcation layer had been installed, the excavated areas within IRM-2 were backfilled on 8 and 9 December 2015. Approximately six (6) inches of bank run gravel was placed above the demarcation fabric and graded. After the backfill had been placed, approximately six (6) inches of topsoil was placed atop the gravel and graded.

Preliminary survey of the restoration area was completed after the area had been backfilled, and the survey elevations indicated that backfill in several areas was less than the required minimum one (1) foot of cover for areas where post-excavation samples containing constituents above the Part 375 SCOs would remain in-place. As a result, additional topsoil was placed and graded on 12 January 2016, using a John Deere 750k dozer, to increase the thickness of the backfill above the demarcation layer sufficiently to meet the minimum cover requirement.

The final survey of the cover was performed on 12 January 2016. Figure 7 shows the final restoration topography (i.e. top of topsoil) and survey points throughout the IRM-2 area documenting the thickness of cover over the demarcation fabric.

4.4 SITE RESTORATION

Following the placement and grading of the cover material, the IRM-2 restoration area was seeded and mulched. Because seeding was completed in the winter season, the wire-backed silt fence was left in-place to prevent sediment erosion until the new seeded areas are established and the area restored. Additional site visits during the spring growing season will be completed to confirm that the restored area is sufficiently vegetated before the wire-backed silt fence is removed.

5. Disposal

Table IV includes a summary of the wastes generated during the IRM-2 activities, including dates of disposal, quantities, and the location of the respective disposal facility.

As discussed in the NYSDEC-approved IRM-2 Work Plan, pre-characterization samples of the concrete and gravel material were collected prior to the IRM construction activities and submitted for analysis per disposal facility profiling requirements. Based on the results of the pre-characterization sampling, separate waste profiles were prepared for the concrete and gravel material; the profiles were included as an appendix to the IRM-2 Work Plan. The materials were accepted for disposal prior to the commencement of field activities at the Steuben County Landfill (NYSDEC Permit 8462400031000040), a permitted solid waste (Part 360) landfill equipped with a liner and leachate collection system.

The sized concrete was direct-loaded for off-site disposal on 20 November 2015. The gravel was direct-loaded for off-site disposal on 23 and 24 November 2015. Weigh tickets for the IRM-2 concrete are included in Appendix F, and the weigh tickets for the sub-base gravels are included in Appendix G.

Final equipment decontamination was completed on 12 January 2015 in the temporary decontamination pad with a steam cleaner to remove soils and debris from the excavation equipment. Water generated from the equipment cleaning activities was containerized in a 500-gallon tote, sampled to determine disposal requirements, and then staged on-site pending waste profiling and disposal of the material. A representative sample of the water generated from the equipment cleaning activities was collected on 4 January 2016 and submitted for analysis of VOCs, TCL SVOCs, Part 375 Metals, PCBs, cyanide, pH, reactivity, corrosivity, and ignitability. The sample results, included as Appendix H, did not contain elevated levels, and the decontamination water could be managed and disposed of as non-hazardous waste.

Op-Tech Environmental Services of Rochester, New York (Op-Tech) was contracted by HCS to assist in management of the decontamination water. On 21 January 2016, Op-Tech mobilized to the site and transferred the water from the tote to six (6) 55-gallon drums for offsite transport. The containerized decontamination water was transported to American Ref-Fuel of Niagara in Niagara Falls, New York for final disposal. The non-hazardous waste manifest associated with the disposal of the decontamination water is included in Appendix I.

References

1. Interim Remedial Measure Work Plan, IRM-2 Former Electrical Substation, Philips Lighting Company Bath Facility, Bath, New York, Haley & Aldrich of New York, 1 September 2015.
2. New York State Department of Environmental Conservation, 6 NYCRR Part 375 Environmental Remediation Programs, Division of Environmental Remediation, December 2006.
3. New York State Department of Environmental Conservation, DER-10 Technical Guidance for Site Investigation and Remediation, Division of Environmental Remediation, May 2010.

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TABLES

TABLE I
SUMMARY OF IRM-2 POST-REMOVAL GRID SAMPLE ANALYTICAL RESULTS
PHILIPS LIGHTING COMPANY BATH FACILITY
BATH, NY
BCP SITE #C851044

LOCATION SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE SAMPLE DEPTH (ft.)	NYSDEC 6 NYCRR Part 375 Restricted Use Soil Cleanup Objectives			IRM2-GRID-126 11/24/2015 L1531070-26 N 0 - 0.2	IRM2-GRID-127 11/24/2015 L1531070-27 N 0 - 0.2	IRM2-GRID-128 11/24/2015 L1531070-28 N 0 - 0.2	IRM2-GRID-129 11/24/2015 L1531070-29 N 0 - 0.2	IRM2-GRID-130 11/24/2015 L1531070-30 N 0 - 0.2	IRM2-GRID-131 11/24/2015 L1531070-31 N 0 - 0.2	IRM2-GRID-132 11/24/2015 L1531070-32 N 0 - 0.2	IRM2-GRID-133 11/24/2015 L1531070-33 N 0 - 0.2	IRM2-GRID-134 11/24/2015 L1531070-34 N 0 - 0.2	IRM2-GRID-135 11/24/2015 L1531070-35 N 0 - 0.2	IRM2-GRID-136 11/24/2015 L1531070-36 N 0 - 0.2	IRM2-GRID-137			
				11/24/2015 L1531070-37 N 0 - 0.2	11/24/2015 L1531070-39 FD (3179-112415-0003) 0 - 0.2													
	Residential	Restricted Residential	Industrial															

TABLE III
SUMMARY OF IMPORT TOPSOIL & BANK RUN GRAVEL ANALYTICAL RESULTS
PHILIPS LIGHTING COMPANY – BATH FACILITY
BATH, NY
BCP SITE #C851044

LOCATION SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE SAMPLE DEPTH (ft.)	NYSDEC DER-10 Appendix 5 - Allowable Constituent Levels for Imported Fill or Soil		TOPSOIL											
			IRM-TS-COMPOSITE-01	IRM-TS-COMPOSITE-02	IRM-TS-DISCRETE-01	IRM-TS-DISCRETE-02	IRM-TS-DISCRETE-03	IRM-TS-DISCRETE-04	IRM-TS-DISCRETE-05	IRM-TS-DISCRETE-06				
			11/23/2015 L1530886-07	11/23/2015 L1530886-08	11/23/2015 L1530886-01	11/23/2015 L1530886-02	11/23/2015 L1530886-03	11/23/2015 L1530886-04	11/23/2015 L1530886-05	11/23/2015 L1530886-06				
			N -	N -	N -	N -	N -	N -	N -	N -				
			Residential Use	Restricted Residential Use	Result Qual		Result Qual		Result Qual		Result Qual		Result Qual	
VOCs (														

TABLE III
SUMMARY OF IMPORT TOPSOIL & BANK RUN GRAVEL ANALYTICAL RESULTS
PHILIPS LIGHTING COMPANY – BATH FACILITY
BATH, NY
BCP SITE #C851044

LOCATION SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE SAMPLE DEPTH (ft.)	NYSDEC DER-10 Appendix 5 - Allowable Constituent Levels for Imported Fill or Soil		BANK RUN											
			IRM-BR-COMPOSITE-01 11/23/2015 L1530885-06	IRM-BR-COMPOSITE-02 11/23/2015 L1530885-07	IRM-BR-DISCRETE-01 11/23/2015 L1530885-01	IRM-BR-DISCRETE-02 11/23/2015 L1530885-02	IRM-BR-DISCRETE-03 11/23/2015 L1530885-03	IRM-BR-DISCRETE-04 11/23/2015 L1530885-04	IRM-BR-DISCRETE-05 11/23/2015 L1530885-05					
			N -	N -	N -	N -	N -	N -	N -					
	Residential Use	Restricted Residential Use	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOCs (mg/kg)														
Acetone	0.05	0.05	-		-		0.0094	U	0.0084		0.0058	J	0.018	
SVOCs (mg/kg)	NA	NA	ND		ND									
Pesticides (mg/kg)	NA	NA	ND		ND		-							

TABLE IV
SUMMARY OF IRM-2 WASTE MANAGEMENT
PHILIPS LIGHTING COMPANY BATH FACILITY
BATH, NEW YORK
BCP SITE #851044

Waste	Date	Volume	units	BUD ¹ (Daily Cover)	Disposal Location	City, State	Facility Type
IRM-2 C&D Debris	11/20/2015	199.13	tons	No	Steuben County Landfill	Bath, NY	Permitted
IRM-2 Gravel	11/23/2015 - 11/24/2015	301.12	tons	Yes	Steuben County Landfill	Bath, NY	Permitted
IRM Decontamination Water	1/21/2016	300	gal	N/A	American Ref-Fuel of Niagara	Niagara Falls, NY	Permitted

Notes & Abbreviations:

1. Beneficial Use Determination (BUD) was provided by the disposal facility indicating the facility's acceptance of the waste stream as daily cover.

FIGURES

APPENDIX A

Photo Log

APPENDIX B

Community Air Monitoring Data

Date	Issue	Resolution
12/7/2015	Upwind CAMP PID was not connected to telemetry data recording device.	Downwind No. 1 CAMP PID readings did not exceed background levels.
11/18/2015	Downwind No. 1 CAMP PID reported erroneous readings of 5 ppm.	Handheld PID readings were collected at Downwind No. 1 location; readings were 0.0 ppm. Downwind No. 1 CAMP PID was re-calibrated and subsequently operated normally.

Notes:

1. PID = photoionization detector
2. ppm = parts per million

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/24/2015 15:00	0	0.0259	
11/24/2015 14:59	0	0.0258	
11/24/2015 14:58	0	0.0257	
11/24/2015 14:57	0	0.0256	
11/24/2015 14:56	0	0.0255	
11/24/2015 14:55	0	0.0255	
11/24/2015 14:54	0	0.0254	
11/24/2015 14:53	0	0.0253	
11/24/2015 14:52	0	0.0253	
11/24/2015 14:51	0	0.0252	
11/24/2015 14:50	0	0.0251	
11/24/2015 14:49	0	0.0251	
11/24/2015 14:48	0	0.0251	
11/24/2015 14:47	0	0.0251	
11/24/2015 14:46	0	0.0251	
11/24/2015 14:45	0	0.0251	
11/24/2015 14:44	0	0.0251	
11/24/2015 14:43	0	0.0251	
11/24/2015 14:42	0	0.0251	
11/24/2015 14:41	0	0.0251	
11/24/2015 14:40	0	0.0251	
11/24/2015 14:39	0	0.0251	
11/24/2015 14:38	0	0.0251	
11/24/2015 14:37	0	0.0251	
11/24/2015 14:36	0	0.0251	
11/24/2015 14:35	0	0.0251	
11/24/2015 14:34	0	0.0251	
11/24/2015 14:33	0	0.0251	
11/24/2015 14:32	0	0.0251	
11/24/2015 14:31	0	0.0251	
11/24/2015 14:30	0	0.025	
11/24/2015 14:29	0	0.025	
11/24/2015 14:28	0	0.025	
11/24/2015 14:27	0	0.025	
11/24/2015 14:26	0	0.0251	
11/24/2015 14:25	0	0.0251	
11/24/2015 14:24	0	0.0252	
11/24/2015 14:23	0	0.0253	
11/24/2015 14:22	0	0.0253	
11/24/2015 14:21	0	0.0253	
11/24/2015 14:20	0	0.0254	
11/24/2015 14:19	0	0.0255	
11/24/2015 14:18	0	0.0255	
11/24/2015 14:17	0	0.0256	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/24/2015 14:16	0	0.0257	
11/24/2015 14:15	0	0.0257	
11/24/2015 14:14	0	0.0258	
11/24/2015 14:13	0	0.0259	
11/24/2015 14:12	0	0.0259	
11/24/2015 14:11	0	0.0259	
11/24/2015 14:10	0	0.0259	
11/24/2015 14:09	0	0.0259	
11/24/2015 14:08	0	0.0259	
11/24/2015 14:07	0	0.0259	
11/24/2015 14:06	0	0.0259	
11/24/2015 14:05	0	0.0259	
11/24/2015 14:04	0	0.0259	
11/24/2015 14:03	0	0.0259	
11/24/2015 14:02	0	0.0259	
11/24/2015 14:01	0	0.0258	
11/24/2015 14:00	0	0.0257	
11/24/2015 13:59	0	0.0257	
11/24/2015 13:58	0	0.0256	
11/24/2015 13:57	0	0.0256	
11/24/2015 13:56	0	0.0255	
11/24/2015 13:55	0	0.0254	
11/24/2015 13:54	0	0.0252	
11/24/2015 13:53	0	0.0251	
11/24/2015 13:52	0	0.0249	
11/24/2015 13:51	0	0.0248	
11/24/2015 13:50	0	0.0247	
11/24/2015 13:49	0	0.0245	
11/24/2015 13:48	0	0.0243	
11/24/2015 13:47	0	0.0243	
11/24/2015 13:46	0	0.0242	
11/24/2015 13:45	0	0.0241	
11/24/2015 13:44	0	0.0241	
11/24/2015 13:43	0	0.0241	
11/24/2015 13:42	0	0.0241	
11/24/2015 13:41	0	0.0241	
11/24/2015 13:40	0	0.0242	
11/24/2015 13:39	0	0.0243	
11/24/2015 13:38	0	0.0243	
11/24/2015 13:37	0	0.0243	
11/24/2015 13:36	0	0.0244	
11/24/2015 13:35	0	0.0245	
11/24/2015 13:34	0	0.0245	
11/24/2015 13:33	0	0.0247	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/24/2015 13:32	0	0.0247	
11/24/2015 13:31	0	0.0248	
11/24/2015 13:30	0	0.0248	
11/24/2015 13:29	0	0.0247	
11/24/2015 13:28	0	0.0247	
11/24/2015 13:27	0	0.0247	
11/24/2015 13:26	0	0.0247	
11/24/2015 13:25	0	0.0248	
11/24/2015 13:24	0	0.025	
11/24/2015 13:23	0	0.0251	
11/24/2015 13:22	0	0.0251	
11/24/2015 13:21	0	0.0252	
11/24/2015 13:20	0	0.0252	
11/24/2015 13:19	0	0.0252	
11/24/2015 13:18	0	0.0253	
11/24/2015 13:17	0	0.0254	
11/24/2015 13:16	0	0.0255	
11/24/2015 13:15	0	0.0255	
11/24/2015 13:14	0	0.0256	
11/24/2015 13:13	0	0.0256	
11/24/2015 13:12	0	0.0256	
11/24/2015 13:11	0	0.0257	
11/24/2015 13:10	0	0.0257	
11/24/2015 13:09	0	0.0255	
11/24/2015 13:08	0	0.0255	
11/24/2015 13:07	0	0.0256	
11/24/2015 13:06	0	0.0256	
11/24/2015 13:05	0	0.0257	
11/24/2015 13:04	0	0.0257	
11/24/2015 13:03	0	0.0257	
11/24/2015 13:02	0	0.0257	
11/24/2015 13:01	0	0.0257	
11/24/2015 13:00	0	0.0257	
11/24/2015 12:59	0	0.0259	
11/24/2015 12:58	0	0.026	
11/24/2015 12:57	0	0.0261	
11/24/2015 12:56	0	0.0262	
11/24/2015 12:55	0	0.0263	
11/24/2015 12:54	0	0.0263	
11/24/2015 12:53	0	0.0264	
11/24/2015 12:52	0	0.0264	
11/24/2015 12:51	0	0.0265	
11/24/2015 12:50	0	0.0265	
11/24/2015 12:49	0	0.0266	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/24/2015 12:48	0	0.0267	
11/24/2015 12:47	0	0.0267	
11/24/2015 12:46	0	0.0267	
11/24/2015 12:45	0	0.0268	
11/24/2015 12:44	0	0.0268	
11/24/2015 12:43	0	0.0268	
11/24/2015 12:42	0	0.0268	
11/24/2015 12:41	0	0.0268	
11/24/2015 12:40	0	0.0268	
11/24/2015 12:39	0	0.0269	
11/24/2015 12:38	0	0.0269	
11/24/2015 12:37	0	0.0271	
11/24/2015 12:36	0	0.0271	
11/24/2015 12:35	0	0.0271	
11/24/2015 12:34	0	0.0272	
11/24/2015 12:33	0	0.0272	
11/24/2015 12:32	0	0.0273	
11/24/2015 12:31	0	0.0273	
11/24/2015 12:30	0	0.0273	
11/24/2015 12:29	0	0.0273	
11/24/2015 12:28	0	0.0273	
11/24/2015 12:27	0	0.0273	
11/24/2015 12:26	0	0.0273	
11/24/2015 12:25	0	0.0273	
11/24/2015 12:24	0	0.0272	
11/24/2015 12:23	0	0.0271	
11/24/2015 12:22	0	0.0271	
11/24/2015 12:21	0	0.0271	
11/24/2015 12:20	0	0.027	
11/24/2015 12:19	0	0.0269	
11/24/2015 12:18	0	0.0269	
11/24/2015 12:17	0	0.0269	
11/24/2015 12:16	0	0.0269	
11/24/2015 12:15	0	0.0268	
11/24/2015 12:14	0	0.0268	
11/24/2015 12:13	0	0.0269	
11/24/2015 12:12	0	0.0269	
11/24/2015 12:11	0	0.0269	
11/24/2015 12:10	0	0.0269	
11/24/2015 12:09	0	0.0269	
11/24/2015 12:08	0	0.0268	
11/24/2015 12:07	0	0.0267	
11/24/2015 12:06	0	0.0267	
11/24/2015 12:05	0	0.0266	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/24/2015 12:04	0	0.0266	
11/24/2015 12:03	0	0.0265	
11/24/2015 12:02	0	0.0265	
11/24/2015 12:01	0	0.0265	
11/24/2015 12:00	0	0.0265	
11/24/2015 11:59	0	0.0264	
11/24/2015 11:58	0	0.0262	
11/24/2015 11:57	0	0.0261	
11/24/2015 11:56	0	0.0261	
11/24/2015 11:55	0	0.0261	
11/24/2015 11:54	0	0.0261	
11/24/2015 11:53	0	0.0261	
11/24/2015 11:52	0	0.0261	
11/24/2015 11:51	0	0.0261	
11/24/2015 11:50	0	0.0261	
11/24/2015 11:49	0	0.026	
11/24/2015 11:48	0	0.0259	
11/24/2015 11:47	0	0.0259	
11/24/2015 11:46	0	0.026	
11/24/2015 11:45	0	0.0259	
11/24/2015 11:44	0	0.0259	
11/24/2015 11:43	0	0.0258	
11/24/2015 11:42	0	0.0257	
11/24/2015 11:41	0	0.0257	
11/24/2015 11:40	0	0.0256	
11/24/2015 11:39	0	0.0255	
11/24/2015 11:38	0	0.0254	
11/24/2015 11:37	0	0.0254	
11/24/2015 11:36	0	0.0253	
11/24/2015 11:35	0	0.0253	
11/24/2015 11:34	0	0.0252	
11/24/2015 11:33	0	0.0252	
11/24/2015 11:32	0	0.0251	
11/24/2015 11:31	0	0.025	
11/24/2015 11:30	0	0.025	
11/24/2015 11:29	0	0.025	
11/24/2015 11:28	0	0.025	
11/24/2015 11:27	0	0.025	
11/24/2015 11:26	0	0.025	
11/24/2015 11:25	0	0.025	
11/24/2015 11:24	0	0.025	
11/24/2015 11:23	0	0.025	
11/24/2015 11:22	0	0.0249	
11/24/2015 11:21	0	0.0249	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/24/2015 11:20	0	0.0249	
11/24/2015 11:19	0	0.0249	
11/24/2015 11:18	0	0.0249	
11/24/2015 11:17	0	0.0249	
11/24/2015 11:16	0	0.0248	
11/24/2015 11:15	0	0.0248	
11/24/2015 11:14	0	0.0248	
11/24/2015 11:13	0	0.0249	
11/24/2015 11:12	0	0.025	
11/24/2015 11:11	0	0.0251	
11/24/2015 11:10	0	0.0253	
11/24/2015 11:09	0	0.0254	
11/24/2015 11:08	0	0.0256	
11/24/2015 11:07	0	0.0259	
11/24/2015 11:06	0	0.0261	
11/24/2015 11:05	0	0.0263	
11/24/2015 11:04	0	0.0266	
11/24/2015 11:03	0	0.0269	
11/24/2015 11:02	0	0.0271	
11/24/2015 11:01	0	0.0276	
11/24/2015 11:00	0	0.0279	
11/24/2015 10:59	0	0.0283	
11/24/2015 10:58	0	0.0285	
11/24/2015 10:57	0	0.0287	
11/24/2015 10:56	0	0.029	
11/24/2015 10:55	0	0.0293	
11/24/2015 10:54	0	0.0297	
11/24/2015 10:53	0	0.03	
11/24/2015 10:52	0	0.0305	
11/24/2015 10:51	0	0.0308	
11/24/2015 10:50	0	0.0309	
11/24/2015 10:49	0	0.0312	
11/24/2015 10:48	0	0.0314	
11/24/2015 10:47	0.02	0.0317	
11/24/2015 10:46	0.02	0.0317	
11/24/2015 10:45	0.02	0.0319	
11/24/2015 10:44	0.02	0.032	
11/24/2015 10:43	0.02	0.0321	
11/24/2015 10:42	0.06	0.0323	
11/24/2015 10:41	0.06	0.0325	
11/24/2015 10:40	0.06	0.0325	
11/24/2015 10:39	0.06	0.0325	
11/24/2015 10:38	0.2	0.0325	
11/24/2015 10:37	0.2	0.0323	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/24/2015 10:36	0.2	0.0323	
11/24/2015 10:35	0.2	0.0323	
11/24/2015 10:34	0.2	0.0323	
11/24/2015 10:33	0.2	0.0323	
11/24/2015 10:32	0.2	0.0322	
11/24/2015 10:31	0.2	0.0321	
11/24/2015 10:30	0.2	0.0321	
11/24/2015 10:29	0.2	0.032	
11/24/2015 10:28	0.2	0.032	
11/24/2015 10:27	0.202	0.0319	
11/24/2015 10:26	0.202	0.0318	
11/24/2015 10:25	0.202	0.0317	
11/24/2015 10:24	0.202	0.0317	
11/24/2015 10:23	0.202	0.0317	
11/24/2015 10:22	0.202	0.0317	
11/24/2015 10:21	0.167	0.0315	
11/24/2015 10:20	0.167	0.0316	
11/24/2015 10:19	0.164	0.0316	
11/24/2015 10:18	0.164	0.0315	
11/24/2015 10:17	0.138	0.0316	
11/24/2015 10:16	0.138	0.0319	
11/24/2015 10:15	0.129	0.0318	
11/24/2015 10:14	0.129	0.032	
11/24/2015 10:13	0.129	0.0319	
11/24/2015 10:12	0.079	0.0318	
11/24/2015 10:11	0.043	0.0317	
11/24/2015 10:10	0.043	0.0316	
11/24/2015 10:09	0.034	0.0315	
11/24/2015 10:08	0.018	0.0314	
11/24/2015 10:07	0.018	0.0314	
11/24/2015 10:06	0.018	0.0314	
11/24/2015 10:05	0.018	0.0313	
11/24/2015 10:04	0.018	0.0313	
11/24/2015 10:03	0.018	0.0311	
11/24/2015 10:02	0.018	0.0308	
11/24/2015 10:01	0.018	0.0303	
11/24/2015 10:00	0.018	0.0301	
11/24/2015 9:59	0.018	0.0298	
11/24/2015 9:58	0.018	0.0298	
11/24/2015 9:57	0.018	0.0297	
11/24/2015 9:56	0.018	0.0297	
11/24/2015 9:55	0.018	0.0298	
11/24/2015 9:54	0.018	0.0297	
11/24/2015 9:50	1.53		

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/24/2015 9:49	1.522	0.0297	
11/24/2015 9:48	1.51	0.0297	
11/24/2015 9:47	1.49	0.0298	
11/24/2015 9:46	1.49	0.0299	
11/24/2015 9:45	1.481	0.03	
11/24/2015 9:44	1.481	0.03	
11/24/2015 9:43	1.463	0.0301	
11/24/2015 9:42	1.463	0.0303	
11/24/2015 9:41	1.449	0.0304	
11/24/2015 9:40	1.424	0.0304	
11/24/2015 9:39	1.424	0.0305	
11/24/2015 9:38	1.424	0.0306	
11/24/2015 9:37	1.414	0.0307	
11/24/2015 9:36	1.414	0.0309	
11/24/2015 9:35	1.383	0.0309	
11/24/2015 9:34	1.383	0.0312	
11/24/2015 9:33	1.355	0.0313	
11/24/2015 9:32	1.355	0.0315	
11/24/2015 9:31	1.347	0.0316	
11/24/2015 9:30	1.319	0.0316	
11/24/2015 9:29	1.308	0.0317	
11/24/2015 9:28	1.286	0.0318	
11/24/2015 9:27	1.274	0.0317	
11/24/2015 9:26	1.248	0.0317	
11/24/2015 9:25	1.247	0.0317	
11/24/2015 9:24	1.247	0.0317	
11/24/2015 9:23	1.235	0.0316	
11/24/2015 9:22	1.218	0.0316	
11/24/2015 9:21	1.183	0.0315	
11/24/2015 9:20	1.174	0.0317	
11/24/2015 9:19	1.17	0.0316	
11/24/2015 9:18	1.149	0.0316	
11/24/2015 9:17	1.149	0.0315	
11/24/2015 9:16	1.139	0.0316	
11/24/2015 9:15	1.139	0.0318	
11/24/2015 9:14	1.106	0.0319	
11/24/2015 9:13	1.066	0.0319	
11/24/2015 9:12	1.057	0.0321	
11/24/2015 9:11	1.05	0.0322	
11/24/2015 9:10	1.026	0.0325	
11/24/2015 9:09	1.019	0.0328	
11/24/2015 9:08	0.999	0.033	
11/24/2015 9:07	0.986	0.033	
11/24/2015 9:06	0.985	0.0331	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/24/2015 9:05	0.97	0.0333	
11/24/2015 9:04	0.954	0.0335	
11/24/2015 9:03	0.918	0.0338	
11/24/2015 9:02	0.918	0.034	
11/24/2015 9:01	0.918	0.0343	
11/24/2015 9:00	0.904	0.0344	
11/24/2015 8:59	0.902	0.0345	
11/24/2015 8:58	0.875	0.0347	
11/24/2015 8:57	0.855	0.0348	
11/24/2015 8:56	0.841	0.0348	
11/24/2015 8:55	0.829	0.0348	
11/24/2015 8:54	0.805	0.0347	
11/24/2015 8:53	0.778	0.0347	
11/24/2015 8:52	0.778	0.0349	
11/24/2015 8:51	0.759	0.0349	
11/24/2015 8:50	0.754	0.0347	
11/24/2015 8:49	0.724	0.0346	
11/24/2015 8:48	0.723	0.0344	
11/24/2015 8:47	0.692	0.0343	
11/24/2015 8:46	0.685	0.034	
11/24/2015 8:45	0.663	0.0337	
11/24/2015 8:44	0.63	0.0335	
11/24/2015 8:43	0.618	0.0335	
11/24/2015 8:42	0.61	0.0339	
11/24/2015 8:41	0.598	0.0339	
11/24/2015 8:40	0.565	0.0348	
11/24/2015 8:39	0.557	0.0357	
11/24/2015 8:38	0.557	0.0358	
11/24/2015 8:37	0.554	0.0358	
11/24/2015 8:36	0.532	0.0359	
11/24/2015 8:35	0.527	0.0359	
11/24/2015 8:34	0.527	0.0359	
11/24/2015 8:33	0.489	0.0362	
11/24/2015 8:32	0.489	0.0362	
11/24/2015 8:31	0.489	0.0363	
11/24/2015 8:30	0.478	0.0363	
11/24/2015 8:29	0.464	0.0364	
11/24/2015 8:28	0.435	0.0367	
11/24/2015 8:27	0.435	0.0362	
11/24/2015 8:26	0.429	0.0363	
11/24/2015 8:25	0.405	0.0352	
11/24/2015 8:24	0.389	0.0345	
11/24/2015 8:23	0.371	0.0342	
11/24/2015 8:22	0.35	0.0339	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/24/2015 8:21	0.327	0.0337	
11/24/2015 8:20	0.322	0.0336	
11/24/2015 8:19	0.297	0.0333	
11/24/2015 8:18	0.289	0.0329	
11/24/2015 8:17	0.281	0.0328	
11/24/2015 8:16	0.252	0.0325	
11/24/2015 8:15	0.252	0.0323	
11/24/2015 8:14	0.236	0.032	
11/24/2015 8:13	0.212	0.0313	
11/24/2015 8:12	0.211	0.0312	
11/24/2015 8:11	0.199	0.0309	
11/24/2015 8:10	0.167	0.0305	
11/24/2015 8:09	0.163	0.0299	
11/24/2015 8:08	0.14	0.0297	
11/24/2015 8:07	0.12	0.0294	
11/24/2015 8:06	0.112	0.0291	
11/24/2015 8:05	0.098	0.0287	
11/24/2015 8:04	0.074	0.0285	
11/24/2015 8:03	0.049	0.0282	
11/24/2015 8:02	0.049	0.028	
11/24/2015 8:01	0.049	0.0279	
11/24/2015 8:00	0.049	0.0278	
11/24/2015 7:59	0.049	0.0277	
11/24/2015 7:58	0.049	0.0276	
11/24/2015 7:57	0.049	0.0271	
11/24/2015 7:56	0.049	0.0269	
11/24/2015 7:55	0.049	0.0269	
11/24/2015 7:54	0.049	0.0268	
11/24/2015 7:53	0.049	0.0266	
11/24/2015 7:52	0.049	0.0265	
11/24/2015 7:51	0.049	0.0267	
11/24/2015 7:50	0.049	0.027	
11/24/2015 7:49	0.049	0.027	
11/23/2015 17:28	0.815	0.0149	
11/23/2015 17:27	0.795	0.0146	
11/23/2015 17:26	0.756	0.0145	
11/23/2015 17:25	0.756	0.0146	
11/23/2015 17:24	0.756	0.0147	
11/23/2015 17:23	0.756	0.0153	
11/23/2015 17:22	0.756	0.016	
11/23/2015 17:21	0.748	0.0166	
11/23/2015 17:20	0.748	0.0178	
11/23/2015 17:19	0.748	0.019	
11/23/2015 17:18	0.748	0.0207	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 17:17	0.748	0.0209	
11/23/2015 17:16	0.748	0.0211	
11/23/2015 17:15	0.718	0.0213	
11/23/2015 17:14	0.696	0.0215	
11/23/2015 17:13	0.696	0.0214	
11/23/2015 17:12	0.696	0.0215	
11/23/2015 17:11	0.696	0.0214	
11/23/2015 17:10	0.696	0.0209	
11/23/2015 17:09	0.696	0.0203	
11/23/2015 17:08	0.696	0.0193	
11/23/2015 17:07	0.685	0.0184	
11/23/2015 17:06	0.663	0.0175	
11/23/2015 17:05	0.663	0.0158	
11/23/2015 17:04	0.62	0.0141	
11/23/2015 17:03	0.603	0.0121	
11/23/2015 17:02	0.603	0.0115	
11/23/2015 17:01	0.603	0.0107	
11/23/2015 17:00	0.576	0.0097	
11/23/2015 16:59	0.493	0.0085	
11/23/2015 16:58	0.459	0.0079	
11/23/2015 16:57	0.459	0.0072	
11/23/2015 16:56	0.459	0.0067	
11/23/2015 16:55	0.459	0.0065	
11/23/2015 16:54	0.459	0.0063	
11/23/2015 16:53	0.459	0.0063	
11/23/2015 16:52	0.459	0.0059	
11/23/2015 16:51	0.459	0.0059	
11/23/2015 16:50	0.459	0.0059	
11/23/2015 16:49	0.459	0.0058	
11/23/2015 16:48	0.449	0.0057	
11/23/2015 16:47	0.427	0.0053	
11/23/2015 16:46	0.427	0.0053	
11/23/2015 16:45	0.409	0.0053	
11/23/2015 16:44	0.403	0.0052	
11/23/2015 16:43	0.403	0.0051	
11/23/2015 16:42	0.403	0.0051	
11/23/2015 16:41	0.403	0.0051	
11/23/2015 16:40	0.403	0.0051	
11/23/2015 16:39	0.393	0.0051	
11/23/2015 16:38	0.368	0.0051	
11/23/2015 16:37	0.368	0.0051	
11/23/2015 16:36	0.358	0.005	
11/23/2015 16:35	0.358	0.005	
11/23/2015 16:34	0.358	0.005	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 16:33	0.358	0.005	
11/23/2015 16:32	0.358	0.005	
11/23/2015 16:31	0.335	0.005	
11/23/2015 16:30	0.335	0.005	
11/23/2015 16:29	0.335	0.005	
11/23/2015 16:28	0.335	0.005	
11/23/2015 16:27	0.335	0.005	
11/23/2015 16:26	0.335	0.005	
11/23/2015 16:25	0.335	0.005	
11/23/2015 16:24	0.333	0.005	
11/23/2015 16:23	0.333	0.005	
11/23/2015 16:22	0.333	0.0049	
11/23/2015 16:21	0.328	0.0049	
11/23/2015 16:20	0.328	0.0048	
11/23/2015 16:19	0.311	0.0047	
11/23/2015 16:18	0.311	0.0047	
11/23/2015 16:17	0.311	0.0046	
11/23/2015 16:16	0.311	0.0045	
11/23/2015 16:15	0.311	0.0045	
11/23/2015 16:14	0.311	0.0045	
11/23/2015 16:13	0.311	0.0044	
11/23/2015 16:12	0.311	0.0044	
11/23/2015 16:11	0.305	0.0043	
11/23/2015 16:10	0.295	0.0043	
11/23/2015 16:09	0.292	0.0042	
11/23/2015 16:08	0.292	0.0041	
11/23/2015 16:07	0.292	0.0041	
11/23/2015 16:06	0.264	0.0041	
11/23/2015 16:05	0.264	0.0041	
11/23/2015 16:04	0.264	0.0041	
11/23/2015 16:03	0.264	0.0041	
11/23/2015 16:02	0.264	0.0042	
11/23/2015 16:01	0.264	0.0042	
11/23/2015 16:00	0.264	0.0041	
11/23/2015 15:59	0.264	0.004	
11/23/2015 15:58	0.264	0.0039	
11/23/2015 15:57	0.264	0.0038	
11/23/2015 15:56	0.264	0.0037	
11/23/2015 15:55	0.264	0.0036	
11/23/2015 15:54	0.264	0.0035	
11/23/2015 15:53	0.264	0.0035	
11/23/2015 15:52	0.264	0.0034	
11/23/2015 15:51	0.281	0.0033	
11/23/2015 15:50	0.286	0.0032	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 15:47	0.286	0.0033	
11/23/2015 15:46	0.297	0.0033	
11/23/2015 15:45	0.319	0.0032	
11/23/2015 15:44	0.319	0.0033	
11/23/2015 15:43	0.319	0.0033	
11/23/2015 15:42	0.319	0.0034	
11/23/2015 15:41	0.319	0.0035	
11/23/2015 15:40	0.319	0.0035	
11/23/2015 15:39	0.319	0.0036	
11/23/2015 15:38	0.319	0.0037	
11/23/2015 15:37	0.339	0.0037	
11/23/2015 15:36	0.339	0.0037	
11/23/2015 15:35	0.339	0.0038	
11/23/2015 15:34	0.339	0.0038	
11/23/2015 15:33	0.339	0.0039	
11/23/2015 15:32	0.339	0.0039	
11/23/2015 15:31	0.339	0.0039	
11/23/2015 15:30	0.339	0.004	
11/23/2015 15:29	0.339	0.004	
11/23/2015 15:28	0.339	0.004	
11/23/2015 15:27	0.339	0.0041	
11/23/2015 15:26	0.339	0.0042	
11/23/2015 15:25	0.317	0.0139	
11/23/2015 15:24	0.317	0.0143	
11/23/2015 15:23	0.317	0.0143	
11/23/2015 15:22	0.317	0.0143	
11/23/2015 15:21	0.317	0.0144	
11/23/2015 15:20	0.317	0.0144	
11/23/2015 15:19	0.317	0.0144	
11/23/2015 15:18	0.317	0.0143	
11/23/2015 15:17	0.317	0.0143	
11/23/2015 15:16	0.317	0.0143	
11/23/2015 15:15	0.317	0.0143	
11/23/2015 15:14	0.317	0.0143	
11/23/2015 15:13	0.317	0.0143	
11/23/2015 15:12	0.317	0.0145	
11/23/2015 15:11	0.317	0.0145	
11/23/2015 15:10	0.331	0.0051	
11/23/2015 15:09	0.331	0.0047	
11/23/2015 15:08	0.331	0.0047	
11/23/2015 15:07	0.331	0.0047	
11/23/2015 15:06	0.331	0.0047	
11/23/2015 15:05	0.345	0.0047	
11/23/2015 15:04	0.345	0.0047	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 15:03	0.345	0.0048	
11/23/2015 15:02	0.345	0.0047	
11/23/2015 15:01	0.358	0.0047	
11/23/2015 15:00	0.358	0.0056	
11/23/2015 14:59	0.358	0.0056	
11/23/2015 14:58	0.358	0.0057	
11/23/2015 14:57	0.358	0.0054	
11/23/2015 14:56	0.38	0.0053	
11/23/2015 14:55	0.38	0.0051	
11/23/2015 14:54	0.38	0.0053	
11/23/2015 14:53	0.38	0.0057	
11/23/2015 14:52	0.38	0.0057	
11/23/2015 14:51	0.38	0.0061	
11/23/2015 14:50	0.38	0.0062	
11/23/2015 14:49	0.38	0.0062	
11/23/2015 14:48	0.38	0.0061	
11/23/2015 14:47	0.38	0.0061	
11/23/2015 14:46	0.38	0.0061	
11/23/2015 14:45	0.38	0.0053	
11/23/2015 14:44	0.38	0.0053	
11/23/2015 14:43	0.38	0.0053	
11/23/2015 14:42	0.38	0.0053	
11/23/2015 14:41	0.38	0.0053	
11/23/2015 14:40	0.38	0.0052	
11/23/2015 14:39	0.38	0.0049	
11/23/2015 14:38	0.38	0.0046	
11/23/2015 14:37	0.36	0.0046	
11/23/2015 14:36	0.36	0.0042	
11/23/2015 14:35	0.266	0.0041	
11/23/2015 14:34	0.172	0.0041	
11/23/2015 14:33	0.172	0.0041	
11/23/2015 14:32	0.172	0.0041	
11/23/2015 14:31	0.172	0.0041	
11/23/2015 14:30	0.172	0.004	
11/23/2015 14:29	0.172	0.004	
11/23/2015 14:28	0.172	0.004	
11/23/2015 14:27	0.172	0.004	
11/23/2015 14:26	0.172	0.004	
11/23/2015 14:25	0.172	0.004	
11/23/2015 14:24	0.172	0.004	
11/23/2015 14:23	0.172	0.004	
11/23/2015 14:22	0.172	0.004	
11/23/2015 14:21	0.172	0.004	
11/23/2015 14:20	0.172	0.004	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 14:04	1.448	0.0043	
11/23/2015 14:03	1.448	0.0043	
11/23/2015 14:02	1.448	0.0043	
11/23/2015 14:01	1.448	0.0043	
11/23/2015 14:00	1.448	0.0043	
11/23/2015 13:59	1.448	0.0043	
11/23/2015 13:58	1.495	0.0043	
11/23/2015 13:57	1.524	0.0043	
11/23/2015 13:56	1.524	0.0042	
11/23/2015 13:55	1.524	0.0042	
11/23/2015 13:54	1.524	0.0042	
11/23/2015 13:53	1.524	0.0042	
11/23/2015 13:52	1.54	0.0042	
11/23/2015 13:51	1.54	0.004	
11/23/2015 13:50	1.542	0.004	
11/23/2015 13:49	1.524	0.0039	
11/23/2015 13:48	1.516	0.0039	
11/23/2015 13:47	1.516	0.0039	
11/23/2015 13:46	1.516	0.0039	
11/23/2015 13:45	1.516	0.0039	
11/23/2015 13:44	1.516	0.0039	
11/23/2015 13:43	1.506	0.0039	
11/23/2015 13:42	1.505	0.0039	
11/23/2015 13:41	1.505	0.0039	
11/23/2015 13:40	1.481	0.0038	
11/23/2015 13:39	1.481	0.0037	
11/23/2015 13:38	1.481	0.0037	
11/23/2015 13:37	1.481	0.0037	
11/23/2015 13:36	1.471	0.0037	
11/23/2015 13:35	1.461	0.0037	
11/23/2015 13:34	1.461	0.0037	
11/23/2015 13:33	1.444	0.0037	
11/23/2015 13:32	1.444	0.0038	
11/23/2015 13:31	1.444	0.0039	
11/23/2015 13:30	1.444	0.0039	
11/23/2015 13:29	1.444	0.0039	
11/23/2015 13:28	1.444	0.0039	
11/23/2015 13:27	1.444	0.004	
11/23/2015 13:26	1.444	0.0043	
11/23/2015 13:25	1.444	0.0045	
11/23/2015 13:24	1.444	0.0045	
11/23/2015 13:23	1.444	0.0045	
11/23/2015 13:22	1.444	0.0047	
11/23/2015 13:21	1.444	0.0047	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 13:20	1.444	0.0047	
11/23/2015 13:19	1.444	0.0047	
11/23/2015 13:18	1.454	0.0047	
11/23/2015 13:17	1.454	0.0045	
11/23/2015 13:16	1.454	0.0044	
11/23/2015 13:15	1.454	0.0044	
11/23/2015 13:14	1.454	0.0043	
11/23/2015 13:13	1.454	0.0042	
11/23/2015 13:12	1.454	0.0041	
11/23/2015 13:11	1.454	0.0037	
11/23/2015 13:10	1.454	0.0037	
11/23/2015 13:09	1.454	0.0037	
11/23/2015 13:08	1.485	0.004	
11/23/2015 13:07	1.485	0.0038	
11/23/2015 13:06	1.485	0.0038	
11/23/2015 13:05	1.485	0.0039	
11/23/2015 13:04	1.485	0.0039	
11/23/2015 13:03	1.485	0.0039	
11/23/2015 13:02	1.485	0.0039	
11/23/2015 13:01	1.485	0.004	
11/23/2015 13:00	1.485	0.004	
11/23/2015 12:59	1.485	0.0041	
11/23/2015 12:58	1.485	0.0041	
11/23/2015 12:57	1.485	0.0041	
11/23/2015 12:56	1.485	0.0041	
11/23/2015 12:55	1.485	0.004	
11/23/2015 12:54	1.482	0.004	
11/23/2015 12:53	1.482	0.0037	
11/23/2015 12:52	1.482	0.0038	
11/23/2015 12:51	1.482	0.0038	
11/23/2015 12:50	1.482	0.0038	
11/23/2015 12:49	1.482	0.0037	
11/23/2015 12:48	1.482	0.0037	
11/23/2015 12:47	1.482	0.0038	
11/23/2015 12:46	1.482	0.0038	
11/23/2015 12:45	1.482	0.0038	
11/23/2015 12:44	1.482	0.0038	
11/23/2015 12:43	1.482	0.004	
11/23/2015 12:42	1.482	0.0041	
11/23/2015 12:41	1.482	0.0041	
11/23/2015 12:40	1.482	0.0042	
11/23/2015 12:39	1.485	0.0041	
11/23/2015 12:38	1.485	0.0041	
11/23/2015 12:37	1.485	0.004	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 12:36	1.485	0.004	
11/23/2015 12:35	1.485	0.0039	
11/23/2015 12:34	1.485	0.0039	
11/23/2015 12:33	1.485	0.0039	
11/23/2015 12:32	1.485	0.004	
11/23/2015 12:31	1.485	0.0039	
11/23/2015 12:30	1.485	0.0039	
11/23/2015 12:29	1.485	0.0039	
11/23/2015 12:28	1.485	0.0037	
11/23/2015 12:27	1.524	0.0037	
11/23/2015 12:26	1.524	0.0037	
11/23/2015 12:25	1.524	0.0037	
11/23/2015 12:24	1.524	0.0037	
11/23/2015 12:23	1.524	0.0037	
11/23/2015 12:22	1.524	0.0036	
11/23/2015 12:21	1.534	0.0035	
11/23/2015 12:20	1.534	0.0035	
11/23/2015 12:19	1.534	0.0035	
11/23/2015 12:18	1.534	0.0035	
11/23/2015 12:17	1.534	0.0035	
11/23/2015 12:16	1.534	0.0035	
11/23/2015 12:15	1.534	0.0035	
11/23/2015 12:14	1.534	0.0035	
11/23/2015 12:13	1.534	0.0035	
11/23/2015 12:12	1.534	0.0035	
11/23/2015 12:11	1.534	0.0035	
11/23/2015 12:10	1.565	0.0035	
11/23/2015 12:09	1.565	0.0036	
11/23/2015 12:08	1.565	0.0037	
11/23/2015 12:07	1.565	0.0037	
11/23/2015 12:06	1.565	0.0038	
11/23/2015 12:05	1.551	0.004	
11/23/2015 12:04	1.551	0.0042	
11/23/2015 12:03	1.551	0.0042	
11/23/2015 12:02	1.551	0.0043	
11/23/2015 12:01	1.551	0.0044	
11/23/2015 12:00	1.551	0.0045	
11/23/2015 11:59	1.551	0.0045	
11/23/2015 11:58	1.551	0.0045	
11/23/2015 11:57	1.551	0.0045	
11/23/2015 11:56	1.551	0.0045	
11/23/2015 11:55	1.551	0.0045	
11/23/2015 11:54	1.551	0.0046	
11/23/2015 11:53	1.551	0.0049	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 11:52	1.551	0.005	
11/23/2015 11:51	1.551	0.0051	
11/23/2015 11:50	1.568	0.0049	
11/23/2015 11:49	1.568	0.0048	
11/23/2015 11:48	1.568	0.0049	
11/23/2015 11:47	1.568	0.0048	
11/23/2015 11:46	1.568	0.0048	
11/23/2015 11:45	1.568	0.005	
11/23/2015 11:44	1.568	0.005	
11/23/2015 11:43	1.568	0.0051	
11/23/2015 11:42	1.568	0.0051	
11/23/2015 11:41	1.568	0.0051	
11/23/2015 11:40	1.568	0.0052	
11/23/2015 11:39	1.604	0.0053	
11/23/2015 11:38	1.613	0.005	
11/23/2015 11:37	1.613	0.0051	
11/23/2015 11:36	1.613	0.0051	
11/23/2015 11:35	1.613	0.0051	
11/23/2015 11:34	1.613	0.0051	
11/23/2015 11:33	1.613	0.0051	
11/23/2015 11:32	1.613	0.0051	
11/23/2015 11:31	1.613	0.005	
11/23/2015 11:30	1.613	0.0047	
11/23/2015 11:29	1.613	0.0048	
11/23/2015 11:28	1.613	0.0047	
11/23/2015 11:27	1.613	0.0047	
11/23/2015 11:26	1.598	0.0046	
11/23/2015 11:25	1.598	0.0045	
11/23/2015 11:24	1.592	0.0044	
11/23/2015 11:23	1.592	0.0043	
11/23/2015 11:22	1.592	0.0041	
11/23/2015 11:21	1.592	0.0041	
11/23/2015 11:20	1.582	0.0041	
11/23/2015 11:19	1.582	0.0041	
11/23/2015 11:18	1.581	0.0041	
11/23/2015 11:17	1.572	0.004	
11/23/2015 11:16	1.554	0.004	
11/23/2015 11:15	1.554	0.004	
11/23/2015 11:14	1.544	0.0039	
11/23/2015 11:13	1.544	0.004	
11/23/2015 11:12	1.538	0.004	
11/23/2015 11:11	1.538	0.004	
11/23/2015 11:10	1.538	0.004	
11/23/2015 11:09	1.538	0.004	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 11:08	1.538	0.0039	
11/23/2015 11:07	1.538	0.0041	
11/23/2015 11:06	1.538	0.0042	
11/23/2015 11:05	1.538	0.0043	
11/23/2015 11:04	1.538	0.0043	
11/23/2015 11:03	1.538	0.0043	
11/23/2015 11:02	1.538	0.0043	
11/23/2015 11:01	1.538	0.0042	
11/23/2015 11:00	1.536	0.0043	
11/23/2015 10:59	1.536	0.0042	
11/23/2015 10:58	1.536	0.0041	
11/23/2015 10:57	1.536	0.0041	
11/23/2015 10:56	1.526	0.004	
11/23/2015 10:55	1.526	0.0039	
11/23/2015 10:54	1.526	0.0043	
11/23/2015 10:53	1.526	0.0043	
11/23/2015 10:52	1.526	0.0041	
11/23/2015 10:51	1.526	0.0039	
11/23/2015 10:50	1.526	0.0037	
11/23/2015 10:49	1.526	0.0037	
11/23/2015 10:48	1.526	0.0039	
11/23/2015 10:47	1.526	0.0039	
11/23/2015 10:46	1.526	0.0039	
11/23/2015 10:45	1.526	0.0039	
11/23/2015 10:44	1.526	0.0039	
11/23/2015 10:43	1.526	0.0041	
11/23/2015 10:42	1.526	0.0041	
11/23/2015 10:41	1.563	0.0041	
11/23/2015 10:40	1.563	0.0042	
11/23/2015 10:39	1.57	0.004	
11/23/2015 10:38	1.57	0.0041	
11/23/2015 10:37	1.57	0.0043	
11/23/2015 10:36	1.571	0.0045	
11/23/2015 10:35	1.571	0.0046	
11/23/2015 10:34	1.571	0.005	
11/23/2015 10:33	1.571	0.0049	
11/23/2015 10:32	1.571	0.005	
11/23/2015 10:31	1.591	0.0051	
11/23/2015 10:30	1.591	0.0051	
11/23/2015 10:29	1.591	0.0051	
11/23/2015 10:28	1.591	0.005	
11/23/2015 10:27	1.591	0.0051	
11/23/2015 10:26	1.591	0.0052	
11/23/2015 10:25	1.591	0.0053	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 10:24	1.591	0.0051	
11/23/2015 10:23	1.616	0.0051	
11/23/2015 10:22	1.616	0.005	
11/23/2015 10:21	1.631	0.0049	
11/23/2015 10:20	1.631	0.0048	
11/23/2015 10:19	1.631	0.0045	
11/23/2015 10:18	1.631	0.0045	
11/23/2015 10:17	1.631	0.0045	
11/23/2015 10:16	1.631	0.0045	
11/23/2015 10:15	1.631	0.0045	
11/23/2015 10:14	1.653	0.0045	
11/23/2015 10:13	1.653	0.0045	
11/23/2015 10:12	1.66	0.0045	
11/23/2015 10:11	1.66	0.0045	
11/23/2015 10:10	1.66	0.0045	
11/23/2015 10:09	1.752	0.0045	
11/23/2015 10:08	1.752	0.0045	
11/23/2015 10:07	1.757	0.0046	
11/23/2015 10:06	1.768	0.0047	
11/23/2015 10:05	1.772	0.0048	
11/23/2015 10:04	1.772	0.0049	
11/23/2015 10:03	1.772	0.005	
11/23/2015 10:02	1.772	0.0051	
11/23/2015 10:01	1.772	0.0052	
11/23/2015 10:00	1.772	0.0053	
11/23/2015 9:59	1.772	0.0055	
11/23/2015 9:58	1.772	0.0056	
11/23/2015 9:57	1.81	0.0057	
11/23/2015 9:56	1.81	0.0059	
11/23/2015 9:55	1.81	0.006	
11/23/2015 9:54	1.81	0.0061	
11/23/2015 9:53	1.81	0.0063	
11/23/2015 9:52	1.81	0.0064	
11/23/2015 9:51	1.81	0.0065	
11/23/2015 9:50	1.904	0.0067	
11/23/2015 9:49	1.904	0.0067	
11/23/2015 9:48	1.904	0.0067	
11/23/2015 9:47	1.908	0.0068	
11/23/2015 9:46	1.908	0.0069	
11/23/2015 9:45	1.908	0.0072	
11/23/2015 9:44	1.908	0.0073	
11/23/2015 9:43	1.908	0.0075	
11/23/2015 9:42	1.908	0.0076	
11/23/2015 9:41	1.908	0.0077	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 9:40	1.908	0.0077	
11/23/2015 9:39	1.898	0.0078	
11/23/2015 9:38	1.889	0.0079	
11/23/2015 9:37	1.878	0.0079	
11/23/2015 9:36	1.878	0.0079	
11/23/2015 9:35	1.878	0.008	
11/23/2015 9:34	1.878	0.0081	
11/23/2015 9:33	1.878	0.0081	
11/23/2015 9:32	1.878	0.0082	
11/23/2015 9:31	1.878	0.0083	
11/23/2015 9:30	1.878	0.0082	
11/23/2015 9:29	1.874	0.0083	
11/23/2015 9:28	1.86	0.0083	
11/23/2015 9:27	1.842	0.0083	
11/23/2015 9:26	1.842	0.0083	
11/23/2015 9:25	1.82	0.0084	
11/23/2015 9:24	1.805	0.0085	
11/23/2015 9:23	1.805	0.0085	
11/23/2015 9:22	1.805	0.0086	
11/23/2015 9:21	1.805	0.0087	
11/23/2015 9:20	1.805	0.0087	
11/23/2015 9:19	1.796	0.0087	
11/23/2015 9:18	1.786	0.0087	
11/23/2015 9:17	1.775	0.0087	
11/23/2015 9:16	1.771	0.0086	
11/23/2015 9:15	1.761	0.0085	
11/23/2015 9:14	1.756	0.0085	
11/23/2015 9:13	1.756	0.0085	
11/23/2015 9:12	1.743	0.0084	
11/23/2015 9:11	1.731	0.0084	
11/23/2015 9:10	1.727	0.0083	
11/23/2015 9:09	1.696	0.0083	
11/23/2015 9:08	1.696	0.0083	
11/23/2015 9:07	1.696	0.0083	
11/23/2015 9:06	1.696	0.0083	
11/23/2015 9:05	1.696	0.0083	
11/23/2015 9:04	1.685	0.0084	
11/23/2015 9:03	1.685	0.0085	
11/23/2015 9:02	1.661	0.0085	
11/23/2015 9:01	1.651	0.0087	
11/23/2015 9:00	1.628	0.0087	
11/23/2015 8:59	1.604	0.0089	
11/23/2015 8:58	1.587	0.0089	
11/23/2015 8:57	1.583	0.0094	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 8:56	1.583	0.0095	
11/23/2015 8:55	1.58	0.0095	
11/23/2015 8:54	1.562	0.0095	
11/23/2015 8:53	1.546	0.0096	
11/23/2015 8:52	1.517	0.0096	
11/23/2015 8:51	1.513	0.0097	
11/23/2015 8:50	1.499	0.0098	
11/23/2015 8:49	1.494	0.0098	
11/23/2015 8:48	1.465	0.0099	
11/23/2015 8:47	1.465	0.0099	
11/23/2015 8:46	1.456	0.0098	
11/23/2015 8:45	1.45	0.0097	
11/23/2015 8:44	1.45	0.0096	
11/23/2015 8:43	1.45	0.0095	
11/23/2015 8:42	1.45	0.0091	
11/23/2015 8:41	1.434	0.0092	
11/23/2015 8:40	1.41	0.0091	
11/23/2015 8:39	1.401	0.0091	
11/23/2015 8:38	1.394	0.0091	
11/23/2015 8:37	1.369	0.0091	
11/23/2015 8:36	1.344	0.0091	
11/23/2015 8:35	1.333	0.0091	
11/23/2015 8:34	1.318	0.0092	
11/23/2015 8:33	1.301	0.0093	
11/23/2015 8:32	1.294	0.0092	
11/23/2015 8:31	1.281	0.0092	
11/23/2015 8:30	1.255	0.0093	
11/23/2015 8:29	1.237	0.0094	
11/23/2015 8:28	1.207	0.0095	
11/23/2015 8:27	1.184	0.0093	
11/23/2015 8:26	1.171	0.0093	
11/23/2015 8:25	1.155	0.0094	
11/23/2015 8:24	1.137	0.0095	
11/23/2015 8:23	1.137	0.0094	
11/23/2015 8:22	1.137	0.0092	
11/23/2015 8:21	1.118	0.009	
11/23/2015 8:20	1.104	0.0087	
11/23/2015 8:19	1.08	0.0085	
11/23/2015 8:18	1.062	0.0083	
11/23/2015 8:17	1.029	0.0082	
11/23/2015 8:16	1.013	0.0081	
11/23/2015 8:15	0.98	0.0081	
11/23/2015 8:14	0.948	0.0079	
11/23/2015 8:13	0.943	0.0079	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/23/2015 8:12	0.902	0.0078	
11/23/2015 8:11	0.902	0.0078	
11/23/2015 8:10	0.902	0.0077	
11/23/2015 8:09	0.902	0.0075	
11/23/2015 8:08	0.902	0.0075	
11/23/2015 8:07	0.89	0.0075	
11/23/2015 8:06	0.831	0.0075	
11/23/2015 8:05	0.814	0.0076	
11/23/2015 8:04	0.782	0.0076	
11/23/2015 8:03	0.745	0.0077	
11/23/2015 8:02	0.745	0.0078	
11/23/2015 8:01	0.74	0.0078	
11/23/2015 8:00	0.694	0.0077	
11/23/2015 7:59	0.652	0.0077	
11/23/2015 7:58	0.569	0.0077	
11/23/2015 7:57	0.468	0.0077	
11/23/2015 7:56	0.36	0.0075	
11/23/2015 7:55	0.315	0.0076	
11/23/2015 7:54	0.315	0.0076	
11/23/2015 7:53	0.315	0.0077	
11/23/2015 7:52	0.315	0.0076	
11/23/2015 7:51	0.315	0.0077	
11/23/2015 7:50	0.315	0.0077	
11/23/2015 7:49	0.315	0.0078	
11/23/2015 7:48	0.315	0.0077	
11/23/2015 7:47	0.315	0.0075	
11/23/2015 7:46	0.315	0.0074	
11/23/2015 7:45	0.315	0.0075	
11/23/2015 7:44	0.315	0.0077	
11/23/2015 7:43	0.315	0.0075	
11/23/2015 7:42	0.315	0.008	
11/23/2015 7:41	0.315		
11/21/2015 15:59	0.585	0.0039	
11/21/2015 15:58	0.585	0.0038	
11/21/2015 15:57	0.585	0.0038	
11/21/2015 15:56	0.585	0.0039	
11/21/2015 15:55	0.585	0.0039	
11/21/2015 15:54	0.585	0.0039	
11/21/2015 15:53	0.585	0.0039	
11/21/2015 15:52	0.585	0.0039	
11/21/2015 15:51	0.585	0.0039	
11/21/2015 15:50	0.585	0.004	
11/21/2015 15:49	0.603	0.004	
11/21/2015 15:48	0.603	0.004	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/21/2015 15:47	0.603	0.004	
11/21/2015 15:46	0.603	0.004	
11/21/2015 15:45	0.603	0.0041	
11/21/2015 15:44	0.603	0.0041	
11/21/2015 15:43	0.603	0.0042	
11/21/2015 15:42	0.603	0.0043	
11/21/2015 15:41	0.603	0.0045	
11/21/2015 15:40	0.603	0.0048	
11/21/2015 15:39	0.603	0.0049	
11/21/2015 15:38	0.603	0.0057	
11/21/2015 15:37	0.603	0.018	
11/21/2015 15:36	0.603	0.0297	
11/21/2015 15:35	0.61	0.0344	
11/21/2015 15:34	0.61	0.0384	
11/21/2015 15:33	0.61	0.0403	
11/21/2015 15:32	0.61	0.0404	
11/21/2015 15:31	0.61	0.0405	
11/21/2015 15:30	0.61	0.0405	
11/21/2015 15:29	0.61	0.0405	
11/21/2015 15:28	0.61	0.0405	
11/21/2015 15:27	0.61	0.0407	
11/21/2015 15:26	0.611	0.0405	
11/21/2015 15:25	0.609	0.0404	
11/21/2015 15:24	0.604	0.0404	
11/21/2015 15:23	0.604	0.0397	
11/21/2015 15:22	0.6	0.0275	
11/21/2015 15:21	0.6	0.0159	
11/21/2015 15:20	0.577	0.0112	
11/21/2015 15:19	0.577	0.0073	
11/21/2015 15:18	0.577	0.0055	
11/21/2015 15:17	0.577	0.0055	
11/21/2015 15:16	0.577	0.0059	
11/21/2015 15:15	0.577	0.0058	
11/21/2015 15:14	0.577	0.0058	
11/21/2015 15:13	0.577	0.0058	
11/21/2015 15:12	0.573	0.0057	
11/21/2015 15:11	0.573	0.0056	
11/21/2015 15:10	0.573	0.0055	
11/21/2015 15:09	0.573	0.0055	
11/21/2015 15:08	0.559	0.0055	
11/21/2015 15:07	0.559	0.0055	
11/21/2015 15:06	0.549	0.0055	
11/21/2015 15:05	0.549	0.0055	
11/21/2015 15:04	0.533	0.0054	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/21/2015 15:03	0.533	0.0053	
11/21/2015 15:02	0.525	0.0053	
11/21/2015 15:01	0.525	0.0049	
11/21/2015 15:00	0.525	0.0049	
11/21/2015 14:59	0.525	0.0049	
11/21/2015 14:58	0.525	0.0049	
11/21/2015 14:57	0.525	0.0049	
11/21/2015 14:56	0.525	0.0049	
11/21/2015 14:55	0.525	0.0049	
11/21/2015 14:54	0.525	0.0049	
11/21/2015 14:53	0.512	0.0049	
11/21/2015 14:52	0.512	0.0049	
11/21/2015 14:51	0.512	0.0049	
11/21/2015 14:50	0.512	0.0049	
11/21/2015 14:49	0.512	0.005	
11/21/2015 14:48	0.512	0.005	
11/21/2015 14:47	0.512	0.005	
11/21/2015 14:46	0.51	0.005	
11/21/2015 14:45	0.51	0.005	
11/21/2015 14:44	0.51	0.005	
11/21/2015 14:43	0.51	0.005	
11/21/2015 14:42	0.51	0.005	
11/21/2015 14:41	0.51	0.005	
11/21/2015 14:40	0.51	0.005	
11/21/2015 14:39	0.51	0.005	
11/21/2015 14:38	0.51	0.0051	
11/21/2015 14:37	0.51	0.0051	
11/21/2015 14:36	0.51	0.0051	
11/21/2015 14:35	0.51	0.0051	
11/21/2015 14:34	0.51	0.0051	
11/21/2015 14:33	0.51	0.0051	
11/21/2015 14:32	0.51	0.0052	
11/21/2015 14:31	0.51	0.0053	
11/21/2015 14:30	0.498	0.0053	
11/21/2015 14:29	0.498	0.0053	
11/21/2015 14:28	0.498	0.0053	
11/21/2015 14:27	0.498	0.0053	
11/21/2015 14:26	0.497	0.0053	
11/21/2015 14:25	0.475	0.0054	
11/21/2015 14:24	0.475	0.0054	
11/21/2015 14:23	0.475	0.0054	
11/21/2015 14:22	0.475	0.0054	
11/21/2015 14:21	0.475	0.0054	
11/21/2015 14:20	0.475	0.0054	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/21/2015 14:19	0.475	0.0054	
11/21/2015 14:18	0.475	0.0054	
11/21/2015 14:17	0.475	0.0053	
11/21/2015 14:16	0.465	0.0053	
11/21/2015 14:15	0.465	0.0053	
11/21/2015 14:14	0.465	0.0053	
11/21/2015 14:13	0.443	0.0053	
11/21/2015 14:12	0.443	0.0053	
11/21/2015 14:11	0.443	0.0053	
11/21/2015 14:10	0.443	0.0052	
11/21/2015 14:09	0.443	0.0052	
11/21/2015 14:08	0.443	0.0051	
11/21/2015 14:07	0.443	0.005	
11/21/2015 14:06	0.443	0.005	
11/21/2015 14:05	0.443	0.005	
11/21/2015 14:04	0.443	0.005	
11/21/2015 14:03	0.441	0.005	
11/21/2015 14:02	0.433	0.0049	
11/21/2015 14:01	0.433	0.0049	
11/21/2015 14:00	0.416	0.0049	
11/21/2015 13:59	0.416	0.0048	
11/21/2015 13:58	0.416	0.0048	
11/21/2015 13:57	0.416	0.0047	
11/21/2015 13:56	0.416	0.0047	
11/21/2015 13:55	0.416	0.0047	
11/21/2015 13:54	0.416	0.0047	
11/21/2015 13:53	0.416	0.0047	
11/21/2015 13:52	0.416	0.0047	
11/21/2015 13:51	0.416	0.0047	
11/21/2015 13:50	0.416	0.0047	
11/21/2015 13:49	0.416	0.0047	
11/21/2015 13:48	0.416	0.0047	
11/21/2015 13:47	0.416	0.0048	
11/21/2015 13:46	0.416	0.0048	
11/21/2015 13:45	0.418	0.0048	
11/21/2015 13:44	0.418	0.0049	
11/21/2015 13:43	0.418	0.0049	
11/21/2015 13:42	0.418	0.0049	
11/21/2015 13:41	0.418	0.005	
11/21/2015 13:40	0.418	0.005	
11/21/2015 13:39	0.418	0.005	
11/21/2015 13:38	0.418	0.005	
11/21/2015 13:37	0.418	0.005	
11/21/2015 13:36	0.418	0.005	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/21/2015 13:35	0.418	0.005	
11/21/2015 13:34	0.418	0.0051	
11/21/2015 13:33	0.418	0.0051	
11/21/2015 13:32	0.421	0.0051	
11/21/2015 13:31	0.421	0.0051	
11/21/2015 13:30	0.421	0.0051	
11/21/2015 13:29	0.421	0.0051	
11/21/2015 13:28	0.426	0.0051	
11/21/2015 13:27	0.426	0.0051	
11/21/2015 13:26	0.434	0.0051	
11/21/2015 13:25	0.452	0.0051	
11/21/2015 13:24	0.452	0.0051	
11/21/2015 13:23	0.452	0.0051	
11/21/2015 13:22	0.452	0.0051	
11/21/2015 13:21	0.452	0.0051	
11/21/2015 13:20	0.452	0.0051	
11/21/2015 13:19	0.452	0.005	
11/21/2015 13:18	0.445	0.0051	
11/21/2015 13:17	0.445	0.0051	
11/21/2015 13:16	0.445	0.0051	
11/21/2015 13:15	0.445	0.0051	
11/21/2015 13:14	0.445	0.0051	
11/21/2015 13:13	0.445	0.0051	
11/21/2015 13:12	0.445	0.0051	
11/21/2015 13:11	0.445	0.0051	
11/21/2015 13:10	0.445	0.0051	
11/21/2015 13:09	0.445	0.0051	
11/21/2015 13:08	0.445	0.0051	
11/21/2015 13:07	0.445	0.0052	
11/21/2015 13:06	0.442	0.0053	
11/21/2015 13:05	0.425	0.0053	
11/21/2015 13:04	0.425	0.0053	
11/21/2015 13:03	0.425	0.0053	
11/21/2015 13:02	0.425	0.0053	
11/21/2015 13:01	0.425	0.0053	
11/21/2015 13:00	0.425	0.0053	
11/21/2015 12:59	0.425	0.0053	
11/21/2015 12:58	0.425	0.0053	
11/21/2015 12:57	0.414	0.0054	
11/21/2015 12:56	0.414	0.0055	
11/21/2015 12:55	0.413	0.0055	
11/21/2015 12:54	0.413	0.0056	
11/21/2015 12:53	0.413	0.0057	
11/21/2015 12:52	0.4	0.0056	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/21/2015 12:51	0.4	0.0056	
11/21/2015 12:50	0.4	0.0056	
11/21/2015 12:49	0.4	0.0056	
11/21/2015 12:48	0.396	0.0056	
11/21/2015 12:47	0.387	0.0056	
11/21/2015 12:46	0.387	0.0057	
11/21/2015 12:45	0.365	0.0057	
11/21/2015 12:44	0.365	0.0057	
11/21/2015 12:43	0.362	0.0057	
11/21/2015 12:42	0.362	0.0057	
11/21/2015 12:41	0.355	0.0056	
11/21/2015 12:40	0.355	0.0056	
11/21/2015 12:39	0.355	0.0055	
11/21/2015 12:38	0.354	0.0055	
11/21/2015 12:37	0.354	0.0055	
11/21/2015 12:36	0.341	0.0055	
11/21/2015 12:35	0.341	0.0055	
11/21/2015 12:34	0.337	0.0056	
11/21/2015 12:33	0.337	0.0055	
11/21/2015 12:32	0.334	0.0055	
11/21/2015 12:31	0.334	0.0055	
11/21/2015 12:30	0.332	0.0054	
11/21/2015 12:29	0.332	0.0054	
11/21/2015 12:28	0.332	0.0055	
11/21/2015 12:27	0.332	0.0056	
11/21/2015 12:26	0.332	0.0057	
11/21/2015 12:25	0.332	0.0057	
11/21/2015 12:24	0.332	0.0057	
11/21/2015 12:23	0.332	0.0058	
11/21/2015 12:22	0.332	0.0058	
11/21/2015 12:21	0.326	0.0059	
11/21/2015 12:20	0.305	0.0059	
11/21/2015 12:19	0.305	0.0058	
11/21/2015 12:18	0.305	0.0059	
11/21/2015 12:17	0.301	0.0059	
11/21/2015 12:16	0.301	0.006	
11/21/2015 12:15	0.301	0.0061	
11/21/2015 12:14	0.301	0.0061	
11/21/2015 12:13	0.301	0.0062	
11/21/2015 12:12	0.299	0.0061	
11/21/2015 12:11	0.272	0.0061	
11/21/2015 12:10	0.272	0.0061	
11/21/2015 12:09	0.235	0.0063	
11/21/2015 12:08	0.234	0.0064	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/21/2015 12:07	0.234	0.0064	
11/21/2015 12:06	0.234	0.0064	
11/21/2015 12:05	0.234	0.0064	
11/21/2015 12:04	0.234	0.0064	
11/21/2015 12:03	0.234	0.0064	
11/21/2015 12:02	0.234	0.0064	
11/21/2015 12:01	0.231	0.0064	
11/21/2015 12:00	0.217	0.0064	
11/21/2015 11:59	0.206	0.0064	
11/21/2015 11:58	0.196	0.0063	
11/21/2015 11:57	0.196	0.0063	
11/21/2015 11:56	0.196	0.0064	
11/21/2015 11:55	0.196	0.0065	
11/21/2015 11:54	0.196	0.0063	
11/21/2015 11:53	0.196	0.0063	
11/21/2015 11:52	0.194	0.0064	
11/21/2015 11:51	0.186	0.0065	
11/21/2015 11:50	0.17	0.0066	
11/21/2015 11:49	0.159	0.0067	
11/21/2015 11:48	0.144	0.0068	
11/21/2015 11:47	0.132	0.0069	
11/21/2015 11:46	0.116	0.0069	
11/21/2015 11:45	0.1	0.0069	
11/21/2015 11:44	0.081	0.007	
11/21/2015 11:43	0.081	0.0071	
11/21/2015 11:42	0.081	0.0072	
11/21/2015 11:41	0.081	0.0072	
11/21/2015 11:40	0.081	0.0072	
11/21/2015 11:39	0.081	0.0073	
11/21/2015 11:38	0.081	0.0073	
11/21/2015 11:37	0.081	0.0073	
11/21/2015 11:36	0.081	0.0071	
11/21/2015 11:35	0.081	0.0072	
11/21/2015 11:34	0.081	0.007	
11/21/2015 11:33	0.081	0.007	
11/21/2015 11:32	0.081	0.007	
11/21/2015 11:31	0.081	0.007	
11/21/2015 11:30	0.081	0.007	
11/20/2015 15:25	0.44	0.0031	
11/20/2015 15:24	0.44	0.0031	
11/20/2015 15:23	0.44	0.003	
11/20/2015 15:22	0.424	0.0022	
11/20/2015 15:21	0.423	0.0022	
11/20/2015 15:20	0.423	0.0022	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/20/2015 15:19	0.412	0.0023	
11/20/2015 15:18	0.406	0.0023	
11/20/2015 15:17	0.406	0.0023	
11/20/2015 15:16	0.391	0.0022	
11/20/2015 15:15	0.391	0.0021	
11/20/2015 15:14	0.391	0.0021	
11/20/2015 15:13	0.391	0.0021	
11/20/2015 15:12	0.391	0.0021	
11/20/2015 15:11	0.391	0.0017	
11/20/2015 15:10	0.391	0.0017	
11/20/2015 15:09	0.391	0.0017	
11/20/2015 15:08	0.391	0.0017	
11/20/2015 15:07	0.39	0.002	
11/20/2015 15:06	0.39	0.002	
11/20/2015 15:05	0.39	0.002	
11/20/2015 15:04	0.39	0.002	
11/20/2015 15:03	0.39	0.002	
11/20/2015 15:02	0.39	0.002	
11/20/2015 15:01	0.39	0.002	
11/20/2015 15:00	0.39	0.0021	
11/20/2015 14:59	0.39	0.0021	
11/20/2015 14:58	0.39	0.0022	
11/20/2015 14:57	0.39	0.0023	
11/20/2015 14:56	0.384	0.0023	
11/20/2015 14:55	0.384	0.0024	
11/20/2015 14:54	0.384	0.0025	
11/20/2015 14:53	0.375	0.0025	
11/20/2015 14:52	0.375	0.0021	
11/20/2015 14:51	0.375	0.0021	
11/20/2015 14:50	0.375	0.0021	
11/20/2015 14:49	0.342	0.0021	
11/20/2015 14:48	0.342	0.0021	
11/20/2015 14:47	0.342	0.0021	
11/20/2015 14:46	0.342	0.0021	
11/20/2015 14:45	0.342	0.0021	
11/20/2015 14:44	0.342	0.0022	
11/20/2015 14:43	0.342	0.0021	
11/20/2015 14:42	0.342	0.0019	
11/20/2015 14:41	0.342	0.0019	
11/20/2015 14:40	0.342	0.0018	
11/20/2015 14:39	0.342	0.0018	
11/20/2015 14:38	0.342	0.0019	
11/20/2015 14:37	0.342	0.0021	
11/20/2015 14:36	0.342	0.002	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/20/2015 14:35	0.342	0.002	
11/20/2015 14:34	0.342	0.0019	
11/20/2015 14:33	0.342	0.0019	
11/20/2015 14:31	0.34	0.0017	
11/20/2015 14:30	0.33	0.0017	
11/20/2015 14:29	0.33	0.0016	
11/20/2015 14:28	0.33	0.0017	
11/20/2015 14:27	0.33	0.0017	
11/20/2015 14:26	0.33	0.0019	
11/20/2015 14:25	0.33	0.002	
11/20/2015 14:24	0.33	0.002	
11/20/2015 14:23	0.33	0.0019	
11/20/2015 14:22	0.33	0.0018	
11/20/2015 14:21	0.33	0.0019	
11/20/2015 14:20	0.33	0.002	
11/20/2015 14:19	0.33	0.0021	
11/20/2015 14:18	0.33	0.0023	
11/20/2015 14:17	0.33	0.0024	
11/20/2015 14:16	0.33	0.0025	
11/20/2015 14:15	0.341	0.0025	
11/20/2015 14:14	0.341	0.0025	
11/20/2015 14:13	0.341	0.0025	
11/20/2015 14:12	0.341	0.0025	
11/20/2015 14:11	0.341	0.0025	
11/20/2015 14:10	0.341	0.0023	
11/20/2015 14:09	0.341	0.0023	
11/20/2015 14:08	0.341	0.0022	
11/20/2015 14:07	0.341	0.0021	
11/20/2015 14:06	0.341	0.0021	
11/20/2015 14:05	0.341	0.0019	
11/20/2015 14:04	0.341	0.0019	
11/20/2015 14:03	0.357	0.0017	
11/20/2015 14:02	0.357	0.0015	
11/20/2015 14:01	0.357	0.0014	
11/20/2015 14:00	0.357	0.0013	
11/20/2015 13:59	0.357	0.0013	
11/20/2015 13:58	0.368	0.0013	
11/20/2015 13:57	0.392	0.0012	
11/20/2015 13:56	0.392	0.0011	
11/20/2015 13:55	0.397	0.001	
11/20/2015 13:54	0.397	0.0011	
11/20/2015 13:53	0.397	0.0011	
11/20/2015 13:52	0.397	0.0011	
11/20/2015 13:51	0.397	0.0011	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/20/2015 13:50	0.397	0.0011	
11/20/2015 13:49	0.397	0.0015	
11/20/2015 13:48	0.408	0.0015	
11/20/2015 13:47	0.399	0.0015	
11/20/2015 13:46	0.399	0.0015	
11/20/2015 13:45	0.399	0.0015	
11/20/2015 13:44	0.399	0.0015	
11/20/2015 13:43	0.399	0.0015	
11/20/2015 13:42	0.399	0.0015	
11/20/2015 13:41	0.399	0.0015	
11/20/2015 13:40	0.399	0.0015	
11/20/2015 13:39	0.399	0.0015	
11/20/2015 13:38	0.399	0.0015	
11/20/2015 13:37	0.399	0.0015	
11/20/2015 13:36	0.39	0.0015	
11/20/2015 13:35	0.39	0.0017	
11/20/2015 13:34	0.384	0.0014	
11/20/2015 13:33	0.384	0.0017	
11/20/2015 13:32	0.384	0.0018	
11/20/2015 13:31	0.384	0.0019	
11/20/2015 13:30	0.384	0.002	
11/20/2015 13:29	0.359	0.0021	
11/20/2015 13:28	0.359	0.0021	
11/20/2015 13:27	0.359	0.0022	
11/20/2015 13:26	0.359	0.0023	
11/20/2015 13:25	0.359	0.0024	
11/20/2015 13:24	0.359	0.0025	
11/20/2015 13:23	0.359	0.0026	
11/20/2015 13:22	0.359	0.0027	
11/20/2015 13:21	0.359	0.0028	
11/20/2015 13:20	0.344	0.0029	
11/20/2015 13:19	0.344	0.0029	
11/20/2015 13:18	0.344	0.0039	
11/20/2015 13:17	0.344	0.004	
11/20/2015 13:16	0.344	0.004	
11/20/2015 13:15	0.344	0.0042	
11/20/2015 13:14	0.344	0.0044	
11/20/2015 13:13	0.344	0.0046	
11/20/2015 13:12	0.344	0.0049	
11/20/2015 13:11	0.344	0.0053	
11/20/2015 13:10	0.344	0.0056	
11/20/2015 13:09	0.344	0.0058	
11/20/2015 13:08	0.344	0.0066	
11/20/2015 13:07	0.344	0.0075	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/20/2015 13:06	0.344	0.009	
11/20/2015 13:05	0.361	0.0115	
11/20/2015 13:04	0.38	0.021	
11/20/2015 12:35	0.325	0.0078	
11/20/2015 12:34	0.325	0.0079	
11/20/2015 12:33	0.325	0.0079	
11/20/2015 12:32	0.332	0.0053	
11/20/2015 12:31	0.332	0.0039	
11/20/2015 12:30	0.332	0.0039	
11/20/2015 12:29	0.332	0.0025	
11/20/2015 12:28	0.346	0.0025	
11/20/2015 12:27	0.347	0.0025	
11/20/2015 12:26	0.349	0.0019	
11/20/2015 12:25	0.349	0.0019	
11/20/2015 12:24	0.349	0.0019	
11/20/2015 12:23	0.349	0.0019	
11/20/2015 12:22	0.349	0.0017	
11/20/2015 12:21	0.349	0.0018	
11/20/2015 12:20	0.349	0.0016	
11/20/2015 12:19	0.349	0.0016	
11/20/2015 12:18	0.349	0.0016	
11/20/2015 12:17	0.349	0.0016	
11/20/2015 12:16	0.345	0.0016	
11/20/2015 12:15	0.296	0.0017	
11/20/2015 12:14	0.296	0.0018	
11/20/2015 12:13	0.296	0.0018	
11/20/2015 12:12	0.296	0.0019	
11/20/2015 12:11	0.296	0.0019	
11/20/2015 12:10	0.296	0.0019	
11/20/2015 12:09	0.296	0.0019	
11/20/2015 12:08	0.296	0.0019	
11/20/2015 12:07	0.296	0.0023	
11/20/2015 12:06	0.296	0.0023	
11/20/2015 12:05	0.296	0.0024	
11/20/2015 12:04	0.296	0.0023	
11/20/2015 12:03	0.296	0.0023	
11/20/2015 12:02	0.296	0.0039	
11/20/2015 12:01	0.296	0.004	
11/20/2015 12:00	0.315	0.0039	
11/20/2015 11:59	0.315	0.0038	
11/20/2015 11:58	0.315	0.0039	
11/20/2015 11:57	0.336	0.0039	
11/20/2015 11:56	0.336	0.0042	
11/20/2015 11:55	0.336	0.0043	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/20/2015 11:54	0.336	0.0043	
11/20/2015 11:53	0.336	0.0043	
11/20/2015 11:52	0.336	0.0041	
11/20/2015 11:51	0.336	0.0043	
11/20/2015 11:50	0.336	0.0044	
11/20/2015 11:49	0.336	0.0048	
11/20/2015 11:48	0.336	0.0047	
11/20/2015 11:47	0.346	0.0032	
11/20/2015 11:46	0.346	0.0032	
11/20/2015 11:45	0.346	0.0033	
11/20/2015 11:44	0.346	0.0033	
11/20/2015 11:43	0.353	0.0035	
11/20/2015 11:42	0.353	0.0036	
11/20/2015 11:41	0.374	0.0034	
11/20/2015 11:40	0.374	0.0033	
11/20/2015 11:39	0.374	0.0033	
11/20/2015 11:38	0.362	0.0034	
11/20/2015 11:37	0.362	0.0041	
11/20/2015 11:36	0.362	0.0039	
11/20/2015 11:35	0.362	0.0038	
11/20/2015 11:34	0.362	0.0035	
11/20/2015 11:33	0.362	0.0036	
11/20/2015 11:32	0.362	0.0037	
11/20/2015 11:31	0.362	0.0041	
11/20/2015 11:30	0.362	0.0041	
11/20/2015 11:29	0.362	0.004	
11/20/2015 11:28	0.362	0.0037	
11/20/2015 11:27	0.362	0.0037	
11/20/2015 11:26	0.362	0.0038	
11/20/2015 11:25	0.362	0.0047	
11/20/2015 11:24	0.362	0.0047	
11/20/2015 11:23	0.371	0.0047	
11/20/2015 11:22	0.371	0.004	
11/20/2015 11:21	0.371	0.0041	
11/20/2015 11:20	0.371	0.0061	
11/20/2015 11:19	0.371	0.0061	
11/20/2015 11:18	0.371	0.0061	
11/20/2015 11:17	0.371	0.0064	
11/20/2015 11:16	0.371	0.006	
11/20/2015 11:15	0.371	0.0061	
11/20/2015 11:14	0.371	0.0061	
11/20/2015 11:13	0.371	0.0073	
11/20/2015 11:12	0.371	0.0073	
11/20/2015 11:11	0.371	0.0073	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/20/2015 11:10	0.384	0.0064	
11/20/2015 11:09	0.403	0.0065	
11/20/2015 11:08	0.403	0.0064	
11/20/2015 11:07	0.42	0.0063	
11/20/2015 11:06	0.42	0.0063	
11/20/2015 11:05	0.421	0.0042	
11/20/2015 11:04	0.421	0.0042	
11/20/2015 11:03	0.421	0.0042	
11/20/2015 11:02	0.421	0.0039	
11/20/2015 11:01	0.439	0.0038	
11/20/2015 11:00	0.444	0.0037	
11/20/2015 10:59	0.451	0.0037	
11/20/2015 10:58	0.451	0.0025	
11/20/2015 10:57	0.45	0.0025	
11/20/2015 10:56	0.45	0.0025	
11/20/2015 10:55	0.45	0.0025	
11/20/2015 10:54	0.45	0.0025	
11/20/2015 10:53	0.45	0.0025	
11/20/2015 10:52	0.45	0.0025	
11/20/2015 10:51	0.45	0.0025	
11/20/2015 10:50	0.45	0.0026	
11/20/2015 10:49	0.45	0.0026	
11/20/2015 10:48	0.45	0.0026	
11/20/2015 10:47	0.45	0.0027	
11/20/2015 10:46	0.45	0.0028	
11/20/2015 10:45	0.45	0.0028	
11/20/2015 10:44	0.45	0.0029	
11/20/2015 10:43	0.45	0.0029	
11/20/2015 10:42	0.451	0.0029	
11/20/2015 10:41	0.451	0.0029	
11/20/2015 10:40	0.451	0.0029	
11/20/2015 10:39	0.451	0.0029	
11/20/2015 10:37	0.451		
11/20/2015 10:36	0.451	0.0029	
11/20/2015 10:35	0.451	0.0029	
11/20/2015 10:34	0.451	0.0029	
11/20/2015 10:33	0.451	0.0029	
11/20/2015 10:32	0.451	0.0029	
11/20/2015 10:31	0.458	0.0029	
11/20/2015 10:30	0.458	0.0029	
11/20/2015 10:29	0.458	0.0029	
11/20/2015 10:28	0.458	0.0029	
11/20/2015 10:27	0.458	0.0029	
11/20/2015 10:26	0.458	0.0029	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/20/2015 10:25	0.458	0.003	
11/20/2015 10:24	0.458	0.003	
11/20/2015 10:23	0.458	0.0031	
11/20/2015 10:22	0.458	0.0031	
11/20/2015 10:21	0.458	0.0031	
11/20/2015 10:20	0.451	0.0031	
11/20/2015 10:19	0.451	0.0032	
11/20/2015 10:18	0.451	0.0032	
11/20/2015 10:17	0.451	0.0032	
11/20/2015 10:16	0.451	0.0033	
11/20/2015 10:15	0.424	0.0033	
11/20/2015 10:14	0.424	0.0033	
11/20/2015 10:13	0.424	0.0034	
11/20/2015 10:12	0.424	0.0033	
11/20/2015 10:11	0.424	0.0033	
11/20/2015 10:10	0.424	0.0034	
11/20/2015 10:09	0.424	0.0034	
11/20/2015 10:08	0.424	0.0033	
11/20/2015 10:07	0.416	0.0034	
11/20/2015 10:06	0.416	0.0034	
11/20/2015 10:05	0.409	0.0035	
11/20/2015 10:04	0.409	0.0037	
11/20/2015 10:03	0.409	0.0037	
11/20/2015 10:02	0.409	0.0038	
11/20/2015 10:01	0.409	0.0037	
11/20/2015 10:00	0.402	0.0038	
11/20/2015 9:59	0.402	0.0039	
11/20/2015 9:58	0.402	0.0039	
11/20/2015 9:57	0.402	0.0039	
11/20/2015 9:56	0.402	0.0039	
11/20/2015 9:55	0.402	0.0038	
11/20/2015 9:54	0.402	0.0039	
11/20/2015 9:53	0.402	0.0039	
11/20/2015 9:52	0.402	0.0038	
11/20/2015 9:51	0.396	0.0039	
11/20/2015 9:50	0.396	0.0039	
11/20/2015 9:49	0.396	0.0037	
11/20/2015 9:48	0.393	0.0037	
11/20/2015 9:47	0.393	0.0037	
11/20/2015 9:46	0.393	0.0037	
11/20/2015 9:45	0.393	0.0037	
11/20/2015 9:44	0.393	0.0035	
11/20/2015 9:43	0.379	0.0036	
11/20/2015 9:42	0.379	0.0037	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/20/2015 9:41	0.379	0.0037	
11/20/2015 9:40	0.379	0.0037	
11/20/2015 9:39	0.379	0.0037	
11/20/2015 9:38	0.379	0.0037	
11/20/2015 9:37	0.379	0.0038	
11/20/2015 9:36	0.379	0.0037	
11/20/2015 9:35	0.379	0.0037	
11/20/2015 9:34	0.379	0.0037	
11/20/2015 9:33	0.379	0.0037	
11/20/2015 9:32	0.379	0.0037	
11/20/2015 9:31	0.362	0.0037	
11/20/2015 9:30	0.362	0.0038	
11/20/2015 9:29	0.362	0.0038	
11/20/2015 9:28	0.362	0.0038	
11/20/2015 9:27	0.362	0.0038	
11/20/2015 9:26	0.362	0.0039	
11/20/2015 9:25	0.357	0.0039	
11/20/2015 9:24	0.346	0.0039	
11/20/2015 9:23	0.346	0.0039	
11/20/2015 9:22	0.321	0.0039	
11/20/2015 9:21	0.321	0.0039	
11/20/2015 9:20	0.321	0.0039	
11/20/2015 9:19	0.321	0.004	
11/20/2015 9:18	0.321	0.004	
11/20/2015 9:17	0.321	0.0044	
11/20/2015 9:16	0.321	0.0044	
11/20/2015 9:15	0.321	0.0044	
11/20/2015 9:14	0.309	0.0043	
11/20/2015 9:13	0.309	0.0043	
11/20/2015 9:12	0.309	0.0043	
11/20/2015 9:11	0.309	0.0043	
11/20/2015 9:10	0.293	0.0043	
11/20/2015 9:09			
11/20/2015 9:08	0.288	0.0043	
11/20/2015 9:07	0.288	0.0043	
11/20/2015 9:06	0.288	0.0045	
11/20/2015 9:05	0.276	0.0045	
11/20/2015 9:04	0.27	0.0048	
11/20/2015 9:03	0.262	0.0048	
11/20/2015 9:02	0.262	0.0045	
11/20/2015 9:01	0.26	0.0045	
11/20/2015 9:00	0.253	0.0045	
11/20/2015 8:59	0.231	0.0046	
11/20/2015 8:58	0.231	0.0049	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/20/2015 8:57	0.231	0.0049	
11/20/2015 8:56	0.231	0.0049	
11/20/2015 8:55	0.231	0.0049	
11/20/2015 8:54	0.23	0.0049	
11/20/2015 8:53	0.219	0.0051	
11/20/2015 8:52	0.219	0.0051	
11/20/2015 8:51	0.213	0.0057	
11/20/2015 8:50	0.189	0.0059	
11/20/2015 8:49	0.189	0.0059	
11/20/2015 8:48	0.189	0.0059	
11/20/2015 8:47	0.189	0.0058	
11/20/2015 8:46	0.179	0.0059	
11/20/2015 8:45	0.179	0.0059	
11/20/2015 8:44	0.166	0.0059	
11/20/2015 8:43	0.166	0.0057	
11/20/2015 8:42	0.154	0.0057	
11/20/2015 8:41	0.154	0.0057	
11/20/2015 8:40	0.154	0.0057	
11/20/2015 8:39	0.124	0.0057	
11/20/2015 8:38	0.124	0.0056	
11/20/2015 8:37	0.124	0.0057	
11/20/2015 8:36	0.124	0.0049	
11/20/2015 8:35	0.107	0.0047	
11/20/2015 8:34	0.107	0.0045	
11/20/2015 8:33	0.107	0.0045	
11/20/2015 8:32	0.092	0.0046	
11/20/2015 8:31	0.092	0.0046	
11/20/2015 8:30	0.092	0.0047	
11/20/2015 8:29	0.085	0.0049	
11/20/2015 8:28	0.08	0.0049	
11/20/2015 8:27	0.062	0.005	
11/20/2015 8:26	0.062	0.0053	
11/20/2015 8:25	0.062	0.0053	
11/20/2015 8:24	0.048	0.0053	
11/20/2015 8:23	0.039	0.0053	
11/20/2015 8:22	0.022	0.0053	
11/20/2015 8:21	0.022	0.0054	
11/20/2015 8:20	0.009	0.0061	
11/20/2015 8:19	0.008	0.007	
11/20/2015 8:18	0	0.0071	
11/20/2015 8:17	0	0.0087	
11/20/2015 8:16	0	0.0091	
11/20/2015 8:15	0	0.0098	
11/20/2015 8:14	0	0.0101	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/20/2015 8:13	0	0.0101	
11/20/2015 8:12	0	0.0101	
11/20/2015 8:11	0	0.0103	
11/20/2015 8:10	0	0.0111	
11/20/2015 8:09	0	0.0113	
11/20/2015 8:08	0	0.0113	
11/20/2015 8:07	0	0.0114	
11/20/2015 8:06	0	0.0127	
11/20/2015 8:05	0	0.0121	
11/20/2015 8:04	0	0.0118	
11/20/2015 8:03	0	0.0118	
11/20/2015 8:02	0	0.0102	
11/20/2015 8:01	0	0.0099	
11/20/2015 8:00	0	0.0128	
11/20/2015 7:59	0	0.0125	
11/20/2015 7:58	0	0.0125	
11/20/2015 7:57	0	0.0126	
11/20/2015 7:56	0	0.0123	
11/20/2015 7:55	0	0.0119	
11/20/2015 7:54	0	0.0123	
11/20/2015 7:53	0	0.0128	
11/20/2015 7:52	0	0.0135	
11/20/2015 7:51	0	0.0123	
11/20/2015 7:50	0	0.013	
11/20/2015 7:49	0	0.0127	
11/20/2015 7:48	0	0.0139	
11/20/2015 7:47	0	0.0152	
11/20/2015 7:46	0	0.017	
11/20/2015 7:45	0	0.0063	
11/20/2015 7:44	0	0.006	
11/20/2015 7:43	0	0.006	
11/20/2015 7:42	0	0.006	
11/19/2015 16:33	0	0.0002	
11/19/2015 16:32	0	0.0003	
11/19/2015 16:31	0	0.0003	
11/19/2015 16:30	0	0.0003	
11/19/2015 16:29	0	0.0004	
11/19/2015 16:28	0	0.0005	
11/19/2015 16:27	0	0.0008	
11/19/2015 16:26	0	0.0007	
11/19/2015 16:25	0	0.001	
11/19/2015 16:24	0	0.001	
11/19/2015 16:23	0	0.001	
11/19/2015 16:22	0	0.0009	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/19/2015 16:21	0	0.0009	
11/19/2015 16:20	0	0.0009	
11/19/2015 16:19	0	0.0009	
11/19/2015 16:18	0	0.001	
11/19/2015 16:17	0	0.0009	
11/19/2015 16:16	0	0.0009	
11/19/2015 16:15	0	0.0009	
11/19/2015 16:14	0	0.0012	
11/19/2015 16:13	0	0.0014	
11/19/2015 16:12	0	0.0011	
11/19/2015 16:11	0	0.0013	
11/19/2015 16:10	0	0.0045	
11/19/2015 16:09	0	0.0194	
11/19/2015 16:08	0	0.0194	
11/19/2015 16:07	0	0.0194	
11/19/2015 16:06	0	0.0193	
11/19/2015 16:05	0	0.0193	
11/19/2015 16:04	0	0.0193	
11/19/2015 16:03	0	0.0193	
11/19/2015 16:02	0	0.0192	
11/19/2015 16:01	0	0.0192	
11/19/2015 16:00	0	0.0192	
11/19/2015 15:59	0	0.0189	
11/19/2015 15:58	0	0.0186	
11/19/2015 15:57	0	0.0186	
11/19/2015 15:56	0	0.0183	
11/19/2015 15:55	0	0.0149	
11/19/2015 15:54		0	
11/19/2015 15:53		0	
11/19/2015 15:52		-0.0001	
11/19/2015 15:51		-0.0001	
11/19/2015 15:50		-0.0002	
11/19/2015 15:49		-0.0003	
11/19/2015 15:48		-0.0003	
11/19/2015 15:47		-0.0004	
11/19/2015 15:46		-0.0005	
11/19/2015 15:45		-0.0005	
11/19/2015 15:44		-0.0005	
11/19/2015 15:43		-0.0005	
11/19/2015 15:42		-0.0006	
11/19/2015 15:41		-0.0007	
11/19/2015 15:40		-0.0007	
11/19/2015 15:39		-0.0008	
11/19/2015 15:38	0.042	-0.0009	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/19/2015 15:37	0.108	-0.0009	
11/19/2015 15:36	0.108	-0.0009	
11/19/2015 15:35	0.326	-0.0008	
11/19/2015 15:34	0.461	-0.0008	
11/19/2015 15:33	0.461	-0.0008	
11/19/2015 15:32	0.461	-0.0008	
11/19/2015 15:31	0.461	-0.0008	
11/19/2015 15:30	0.461	-0.0008	
11/19/2015 15:29	0.461	-0.0009	
11/19/2015 15:28	0.461	-0.0009	
11/19/2015 15:27	0.461	-0.0009	
11/19/2015 15:26	0.64	-0.0009	
11/19/2015 15:25	0.64	-0.0009	
11/19/2015 15:24	0.64	-0.0009	
11/19/2015 15:23	0.814	-0.0009	
11/19/2015 15:22	0.814	-0.0009	
11/19/2015 15:21	0.814	-0.0009	
11/19/2015 15:20	0.814	-0.001	
11/19/2015 15:19	0.814	-0.0011	
11/19/2015 15:18	0.919	-0.0011	
11/19/2015 15:17	0.919	-0.0011	
11/19/2015 15:16	0.941	-0.0012	
11/19/2015 15:15	0.941	-0.0012	
11/19/2015 15:14	0.968	-0.0012	
11/19/2015 15:13	0.968	-0.0013	
11/19/2015 15:12	1.229	-0.0013	
11/19/2015 15:11	1.244	-0.0014	
11/19/2015 15:10	1.338	-0.0015	
11/19/2015 15:09	1.338	-0.0015	
11/19/2015 15:08	1.338	-0.0015	
11/19/2015 15:07	1.5	-0.0015	
11/19/2015 15:06	1.5	-0.0016	
11/19/2015 15:05	1.674	-0.0016	
11/19/2015 15:04	1.674	-0.0016	
11/19/2015 15:03	1.743	-0.0016	
11/19/2015 15:02	1.743	-0.0016	
11/19/2015 15:01	1.85	-0.0015	
11/19/2015 15:00	1.85	-0.0015	
11/19/2015 14:59	2.304	-0.0016	
11/19/2015 14:58	2.304	-0.0015	
11/19/2015 14:57	2.396	-0.0015	
11/19/2015 14:56	2.401	-0.0015	
11/19/2015 14:55	2.407	-0.0015	
11/19/2015 14:54	2.929	-0.0015	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/19/2015 14:53	2.929	-0.0015	
11/19/2015 14:52	2.898	-0.0015	
11/19/2015 14:51	2.898	-0.0014	
11/19/2015 14:50	2.863	-0.0014	
11/19/2015 14:49	2.863	-0.0014	
11/19/2015 14:48	2.863	-0.0015	
11/19/2015 14:47	2.826	-0.0015	
11/19/2015 14:46	2.826	-0.0015	
11/19/2015 14:45	2.826	-0.0015	
11/19/2015 14:44	2.743	-0.0015	
11/19/2015 14:43	2.743	-0.0015	
11/19/2015 14:42	2.743	-0.0015	
11/19/2015 14:41	2.743	-0.0015	
11/19/2015 14:40	2.743	-0.0015	
11/19/2015 14:39	2.734	-0.0015	
11/19/2015 14:38	2.681	-0.0016	
11/19/2015 14:37	2.681	-0.0017	
11/19/2015 14:36	2.681	-0.0017	
11/19/2015 14:35	2.681	-0.0018	
11/19/2015 14:34	2.681	-0.0017	
11/19/2015 14:33	2.681	-0.0017	
11/19/2015 14:32	2.641	-0.0017	
11/19/2015 14:31	2.607	-0.0017	
11/19/2015 14:30	2.607	-0.0017	
11/19/2015 14:29	2.55	-0.0016	
11/19/2015 14:28	2.55	-0.0015	
11/19/2015 14:27	2.55	-0.0015	
11/19/2015 14:26	2.533	-0.0015	
11/19/2015 14:25	2.459	-0.0015	
11/19/2015 14:24	2.459	-0.0014	
11/19/2015 14:23	2.459	-0.0014	
11/19/2015 14:22	2.452	-0.0013	
11/19/2015 14:21	2.439	-0.0013	
11/19/2015 14:20	2.439	-0.0012	
11/19/2015 14:19	2.373	-0.0012	
11/19/2015 14:18	2.373	-0.0011	
11/19/2015 14:17	2.373	-0.0011	
11/19/2015 14:16	2.323	-0.0011	
11/19/2015 14:15	2.252	-0.0011	
11/19/2015 14:14	2.202	-0.0011	
11/19/2015 14:13	2.184	-0.0012	
11/19/2015 14:12	2.048	-0.0012	
11/19/2015 14:11	2.048	-0.0011	
11/19/2015 14:10	1.999	-0.0011	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/19/2015 14:09	1.999	-0.0011	
11/19/2015 14:08	1.999	-0.0009	
11/19/2015 14:07	1.999	-0.001	
11/19/2015 14:06	1.999	-0.0011	
11/19/2015 14:05	1.999	-0.0011	
11/19/2015 14:04	1.999	-0.0012	
11/19/2015 14:03	1.999	-0.0013	
11/19/2015 14:02	1.999	-0.0013	
11/19/2015 14:01	1.999	-0.0013	
11/19/2015 14:00	1.999	-0.0013	
11/19/2015 13:59	1.999	-0.0013	
11/19/2015 13:58	1.999	-0.0013	
11/19/2015 13:57	1.999	-0.0013	
11/19/2015 13:56	1.999	-0.0015	
11/19/2015 13:55	2.107	-0.0015	
11/19/2015 13:54	2.107	-0.0015	
11/19/2015 13:53	2.08	-0.0017	
11/19/2015 13:52	2.08	-0.0016	
11/19/2015 13:51	2.08	-0.0015	
11/19/2015 13:50	2.08	-0.0015	
11/19/2015 13:49	2.08	-0.0015	
11/19/2015 13:48	2.08	-0.0015	
11/19/2015 13:47	2.08	-0.0016	
11/19/2015 13:46	2.08	-0.0017	
11/19/2015 13:45	2.08	-0.0017	
11/19/2015 13:44	2.08	-0.0017	
11/19/2015 13:43	2.08	-0.0017	
11/19/2015 13:42	2.08	-0.0017	
11/19/2015 13:41	2.062	-0.0017	
11/19/2015 13:40	2.062	-0.0017	
11/19/2015 13:39	2.062	-0.0017	
11/19/2015 13:38	2.062	-0.0017	
11/19/2015 13:37	2.062	-0.0017	
11/19/2015 13:36	2.062	-0.0018	
11/19/2015 13:35	2.062	-0.0017	
11/19/2015 13:34	2.062	-0.0017	
11/19/2015 13:33	2.062	-0.0017	
11/19/2015 13:32	2.042	-0.0017	
11/19/2015 13:31	2.042	-0.0017	
11/19/2015 13:30	1.997	-0.0017	
11/19/2015 13:29	1.908	-0.0017	
11/19/2015 13:28	1.849	-0.0017	
11/19/2015 13:27	1.849	-0.0017	
11/19/2015 13:26	1.849	-0.0018	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/19/2015 13:25	1.769	-0.0019	
11/19/2015 13:24	1.769	-0.0019	
11/19/2015 13:23	1.697	-0.0019	
11/19/2015 13:22	1.554	-0.0019	
11/19/2015 13:21	1.554	-0.0018	
11/19/2015 13:20	1.554	-0.0019	
11/19/2015 13:19	1.554	-0.0019	
11/19/2015 13:18	1.534	-0.0019	
11/19/2015 13:17	1.534	-0.0019	
11/19/2015 13:16	1.424	-0.0019	
11/19/2015 13:15	1.419	-0.0019	
11/19/2015 13:14	1.346	-0.0019	
11/19/2015 13:13	1.346	-0.0018	
11/19/2015 13:12	1.346	-0.0018	
11/19/2015 13:11	1.346	-0.0018	
11/19/2015 13:10	1.346	-0.0018	
11/19/2015 13:09	1.346	-0.0018	
11/19/2015 13:08	1.346	-0.0018	
11/19/2015 13:07	1.346	-0.0018	
11/19/2015 13:06	1.346	-0.0019	
11/19/2015 13:05	1.346	-0.0019	
11/19/2015 13:04	1.346	-0.0019	
11/19/2015 13:03	1.346	-0.0019	
11/19/2015 13:02	1.346	-0.0019	
11/19/2015 13:01	1.346	-0.0019	
11/19/2015 13:00	1.346	-0.0018	
11/19/2015 12:59	1.406	-0.0018	
11/19/2015 12:58	1.406	-0.0019	
11/19/2015 12:57	1.406	-0.0019	
11/19/2015 12:56	1.406	-0.0019	
11/19/2015 12:55	1.406	-0.0019	
11/19/2015 12:54	1.406	-0.0019	
11/19/2015 12:53	1.406	-0.0019	
11/19/2015 12:52	1.406	-0.0019	
11/19/2015 12:51	1.514	-0.0019	
11/19/2015 12:50	1.514	-0.0019	
11/19/2015 12:49	1.514	-0.0019	
11/19/2015 12:48	1.607	-0.0019	
11/19/2015 12:47	1.607	-0.0019	
11/19/2015 12:46	1.718	-0.0019	
11/19/2015 12:45	1.718	-0.0021	
11/19/2015 12:44	1.718	-0.0021	
11/19/2015 12:43	1.816	-0.002	
11/19/2015 12:42	1.816	-0.002	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/19/2015 12:41	1.841	-0.002	
11/19/2015 12:40	1.841	-0.002	
11/19/2015 12:39	1.841	-0.002	
11/19/2015 12:38	1.957	-0.002	
11/19/2015 12:37	1.992	-0.002	
11/19/2015 12:36	2.007	-0.002	
11/19/2015 12:35	2.007	-0.0017	
11/19/2015 12:34	2.007	-0.0017	
11/19/2015 12:33	2.007	-0.0017	
11/19/2015 12:32	2.007	-0.0017	
11/19/2015 12:31	2.007	-0.0017	
11/19/2015 12:30	2.014	-0.0017	
11/19/2015 12:29	2.014	-0.0017	
11/19/2015 12:28	2.014	-0.0017	
11/19/2015 12:27	2.014	-0.0017	
11/19/2015 12:26	2.014	-0.0017	
11/19/2015 12:25	2.014	-0.0017	
11/19/2015 12:24	2.014	-0.0017	
11/19/2015 12:23	2.014	-0.0017	
11/19/2015 12:22	2.014	-0.0017	
11/19/2015 12:21	2.077	-0.0017	
11/19/2015 12:20	2.077	-0.002	
11/19/2015 12:19	2.015	-0.002	
11/19/2015 12:18	2.015	-0.002	
11/19/2015 12:17	2.015	-0.002	
11/19/2015 12:16	2.015	-0.002	
11/19/2015 12:15	1.993	-0.002	
11/19/2015 12:14	1.993	-0.002	
11/19/2015 12:13	1.993	-0.002	
11/19/2015 12:12	1.866	-0.002	
11/19/2015 12:11	1.866	-0.002	
11/19/2015 12:10	1.866	-0.002	
11/19/2015 12:09	1.866	-0.002	
11/19/2015 12:08	1.866	-0.002	
11/19/2015 12:07	1.866	-0.002	
11/19/2015 12:06	1.866	-0.002	
11/19/2015 12:05	1.866	-0.002	
11/19/2015 12:04	1.866	-0.002	
11/19/2015 12:03	1.866	-0.002	
11/19/2015 12:02	1.866	-0.002	
11/19/2015 12:01	1.866	-0.002	
11/19/2015 12:00	1.8	-0.002	
11/19/2015 11:59	1.8	-0.002	
11/19/2015 11:58	1.791	-0.002	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/19/2015 11:57	1.791	-0.002	
11/19/2015 11:56	1.791	-0.002	
11/19/2015 11:55	1.791	-0.002	
11/19/2015 11:54	1.791	-0.002	
11/19/2015 11:53	1.791	-0.002	
11/19/2015 11:52	1.791	-0.002	
11/19/2015 11:51	1.791	-0.002	
11/19/2015 11:50	1.791	-0.002	
11/19/2015 11:49	1.791	-0.002	
11/19/2015 11:48	1.791	-0.002	
11/19/2015 11:47	1.791	-0.002	
11/19/2015 11:46	1.791	-0.002	
11/19/2015 11:45	1.791	-0.002	
11/19/2015 11:44	1.791	-0.002	
11/19/2015 11:43	1.82	-0.002	
11/19/2015 11:42	1.82	-0.0019	
11/19/2015 11:41	1.892	-0.0019	
11/19/2015 11:40	1.897	-0.0019	
11/19/2015 11:39	1.897	-0.0019	
11/19/2015 11:38	1.94	-0.0019	
11/19/2015 11:37	1.987	-0.0019	
11/19/2015 11:36	1.987	-0.0018	
11/19/2015 11:35	1.987	-0.0018	
11/19/2015 11:34	1.987	-0.0018	
11/19/2015 11:33	1.98	-0.0018	
11/19/2015 11:32	1.98	-0.0018	
11/19/2015 11:31	1.93	-0.0018	
11/19/2015 11:30	1.913	-0.0017	
11/19/2015 11:29	1.913	-0.0017	
11/19/2015 11:28	1.913	-0.0016	
11/19/2015 11:27	1.913	-0.0017	
11/19/2015 11:26	1.913	-0.0016	
11/19/2015 11:25	1.913	-0.0016	
11/19/2015 11:24	1.913	-0.0015	
11/19/2015 11:23	1.913	-0.0015	
11/19/2015 11:22	1.913	-0.0015	
11/19/2015 11:21	1.913	-0.0015	
11/19/2015 11:20	1.913	-0.0014	
11/19/2015 11:19	1.913	-0.0013	
11/19/2015 11:18	1.913	-0.0013	
11/19/2015 11:17	1.913	-0.0012	
11/19/2015 11:16	1.913	-0.0011	
11/19/2015 11:15	1.95	-0.0011	
11/19/2015 11:14	1.95	-0.0011	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/19/2015 11:13	1.955	-0.0011	
11/19/2015 11:12	1.955	-0.0011	
11/19/2015 11:11	1.955	-0.0011	
11/19/2015 11:10	1.955	-0.001	
11/19/2015 11:09	1.955	-0.001	
11/19/2015 11:08	1.955	-0.001	
11/19/2015 11:07	1.955	-0.001	
11/19/2015 11:06	1.975	-0.001	
11/19/2015 11:05	1.975	-0.001	
11/19/2015 11:04	1.975	-0.001	
11/19/2015 11:03	1.975	-0.001	
11/19/2015 11:02	1.975	-0.001	
11/19/2015 11:01	1.975	-0.001	
11/19/2015 11:00	1.975	-0.001	
11/19/2015 10:59	1.975	-0.001	
11/19/2015 10:58	1.975	-0.001	
11/19/2015 10:57	1.945	-0.001	
11/19/2015 10:56	1.945	-0.001	
11/19/2015 10:55	1.901	-0.0009	
11/19/2015 10:54	1.836	-0.0009	
11/19/2015 10:53	1.726	-0.0009	
11/19/2015 10:52	1.72	-0.0009	
11/19/2015 10:51	1.625	-0.0009	
11/19/2015 10:50	1.625	-0.0009	
11/19/2015 10:49	1.5	0.0012	
11/19/2015 10:48	1.5	0.0012	
11/19/2015 10:47	1.5	0.0012	
11/19/2015 10:46	1.5	0.0012	
11/19/2015 10:45	1.5	0.0012	
11/19/2015 10:44	1.415	0.0013	
11/19/2015 10:43	1.371	0.0013	
11/19/2015 10:42	1.371	0.0013	
11/19/2015 10:41	1.371	0.0014	
11/19/2015 10:40	1.371	0.0013	
11/19/2015 10:39	1.371	0.0013	
11/19/2015 10:38	1.371	0.0013	
11/19/2015 10:37	1.371	0.0013	
11/19/2015 10:36	1.371	0.0013	
11/19/2015 10:35	1.371	0.0013	
11/19/2015 10:34	1.371	-0.0007	
11/19/2015 10:33	1.371	-0.0007	
11/19/2015 10:32	1.139	-0.0007	
11/19/2015 10:31	1.103	-0.0007	
11/19/2015 10:30	1.069	-0.0007	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/19/2015 10:29	1.045	-0.0007	
11/19/2015 10:28	0.852	-0.0007	
11/19/2015 10:27	0.852	-0.0007	
11/19/2015 10:26	0.852	-0.0007	
11/19/2015 10:25	0.852	-0.0006	
11/19/2015 10:24	0.852	-0.0005	
11/19/2015 10:23	0.803	-0.0005	
11/19/2015 10:22	0.803	-0.0005	
11/19/2015 10:21	0.674	-0.0005	
11/19/2015 10:20	0.592	-0.0005	
11/19/2015 10:19	0.592	-0.0005	
11/19/2015 10:18	0.592	-0.0004	
11/19/2015 10:17	0.563	-0.0003	
11/19/2015 10:16	0.505	-0.0003	
11/19/2015 10:15	0.505	-0.0003	
11/19/2015 10:14	0.505	-0.0003	
11/19/2015 10:13	0.454	-0.0003	
11/19/2015 10:12	0.418	-0.0002	
11/19/2015 10:11	0.418	-0.0002	
11/19/2015 10:10	0.259	-0.0002	
11/19/2015 10:09	0.259	-0.0003	
11/19/2015 10:08	0.259	-0.0003	
11/19/2015 10:07	0.259	-0.0002	
11/19/2015 10:06	0.205	-0.0002	
11/19/2015 10:05	0.205	-0.0001	
11/19/2015 10:04	0.205	0	
11/19/2015 10:03	0.202	0	
11/19/2015 10:02	0.124	0	
11/19/2015 10:01	0.102	0	
11/19/2015 9:59	0.099		
11/19/2015 9:58	0.066	0	
11/19/2015 9:57	0.022	0	
11/19/2015 9:56	0.022	0	
11/19/2015 9:55	0.021	0.0001	
11/19/2015 9:54	0.021	0.0001	
11/19/2015 9:53	0.021	0.0001	
11/19/2015 9:52	0.021	0.0001	
11/19/2015 9:51	0.021	0.0001	
11/19/2015 9:50	0.02	0.0001	
11/19/2015 9:49	0.02	0.0001	
11/19/2015 9:48	0.02	0.0001	
11/19/2015 9:47	0.002	0.0001	
11/19/2015 9:46	0	0.0001	
11/19/2015 9:45	0	0.0001	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/19/2015 9:44	0	0.0004	
11/19/2015 9:43	0	0.0004	
11/19/2015 9:42	0	0.0004	
11/19/2015 9:41	0	0.0004	
11/19/2015 9:40	0	0.0004	
11/19/2015 9:39	0	0.0005	
11/19/2015 9:38	0	0.0005	
11/19/2015 9:37	0	0.0005	
11/19/2015 9:36	0	0.0006	
11/19/2015 9:35	0	0.0006	
11/19/2015 9:34	0	0.0007	
11/19/2015 9:33	0	0.0007	
11/19/2015 9:32	0	0.0008	
11/19/2015 9:31	0	0.0009	
11/19/2015 9:30	0	0.0009	
11/19/2015 9:29	0	0.0007	
11/19/2015 9:28	0	0.0008	
11/19/2015 9:27	0	0.0009	
11/19/2015 9:26	0	0.0009	
11/19/2015 9:25	0	0.0009	
11/19/2015 9:24	0	0.0009	
11/19/2015 9:23	0	0.0009	
11/19/2015 9:22	0	0.001	
11/19/2015 9:21	0	0.001	
11/19/2015 9:20	0	0.001	
11/19/2015 9:19	0	0.001	
11/19/2015 9:18	0	0.001	
11/19/2015 9:17	0	0.001	
11/19/2015 9:16	0	0.001	
11/19/2015 9:15	0	0.001	
11/19/2015 9:14	0	0.001	
11/19/2015 9:13	0	0.001	
11/19/2015 9:12	0	0.0012	
11/19/2015 9:11	0	0.0012	
11/19/2015 9:10	0	0.0012	
11/19/2015 9:09	0	0.0012	
11/19/2015 9:08	0	0.0012	
11/19/2015 9:07	0	0.0012	
11/19/2015 9:06	0	0.0012	
11/19/2015 9:05	0	0.0012	
11/19/2015 9:04	0	0.0012	
11/19/2015 9:03	0	0.0012	
11/19/2015 9:02	0	0.0013	
11/19/2015 9:01	0	0.0013	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/19/2015 9:00	0	0.0013	
11/19/2015 8:59	0	0.0013	
11/19/2015 8:58	0	0.0013	
11/19/2015 8:57	0	0.0011	
11/19/2015 8:56	0	0.0011	
11/19/2015 8:55	0	0.0011	
11/19/2015 8:54	0	0.0011	
11/19/2015 8:53	0	0.0011	
11/19/2015 8:52	0	0.0011	
11/19/2015 8:51	0	0.0012	
11/19/2015 8:50	0	0.0012	
11/19/2015 8:49	0	0.0012	
11/19/2015 8:48	0	0.0013	
11/19/2015 8:47	0	0.0013	
11/19/2015 8:46	0	0.0013	
11/19/2015 8:45	0	0.0013	
11/19/2015 8:44	0	0.0013	
11/19/2015 8:43	0	0.0014	
11/19/2015 8:42	0	0.0014	
11/19/2015 8:41	0	0.0013	
11/19/2015 8:40	0	0.0014	
11/19/2015 8:39	0	0.0014	
11/19/2015 8:38	0	0.0015	
11/19/2015 8:37	0	0.0016	
11/19/2015 8:36	0	0.0015	
11/19/2015 8:35	0	0.0017	
11/19/2015 8:34	0	0.002	
11/19/2015 8:33	0	0.002	
11/18/2015 16:00	0.523	0.013	
11/18/2015 15:59	0.523	0.0129	
11/18/2015 15:58	0.523	0.0129	
11/18/2015 15:57	0.523	0.0128	
11/18/2015 15:56	0.52	0.0127	
11/18/2015 15:55	0.502	0.0125	
11/18/2015 15:54	0.502	0.0121	
11/18/2015 15:53	0.502	0.012	
11/18/2015 15:52	0.502	0.0119	
11/18/2015 15:51	0.502	0.0116	
11/18/2015 15:50	0.478	0.0115	
11/18/2015 15:49	0.478	0.0115	
11/18/2015 15:48	0.478	0.0115	
11/18/2015 15:47	0.478	0.0115	
11/18/2015 15:46	0.478	0.0115	
11/18/2015 15:45	0.478	0.0114	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/18/2015 15:44	0.455	0.0114	
11/18/2015 15:43	0.455	0.0113	
11/18/2015 15:42	0.455	0.0113	
11/18/2015 15:41	0.455	0.0113	
11/18/2015 15:40	0.438	0.0113	
11/18/2015 15:39	0.438	0.0121	
11/18/2015 15:38	0.438	0.0169	
11/18/2015 15:37	0.438	0.0169	
11/18/2015 15:36	0.438	0.0193	
11/18/2015 15:35	0.438	0.0195	
11/18/2015 15:34	0.438	0.0197	
11/18/2015 15:33	0.438	0.0203	
11/18/2015 15:32	0.438	0.0205	
11/18/2015 15:31	0.438	0.0207	
11/18/2015 15:30	0.438	0.0213	
11/18/2015 15:29	0.298	0.0217	
11/18/2015 15:28	0.164	0.0225	
11/18/2015 15:27	0.164	0.0232	
11/18/2015 15:26	0.164	0.0233	
11/18/2015 15:25	0.164	0.0245	
11/18/2015 15:24	0.164	0.0348	
11/18/2015 15:23	0.164	0.0301	
11/18/2015 15:22	0.164	0.0347	
11/18/2015 15:21	0.164	0.0329	
11/18/2015 15:20	0.164	0.0341	
11/18/2015 15:19	0.164	0.0359	
11/18/2015 15:18	0.164	0.0393	
11/18/2015 15:17	0.164	0.0475	
11/18/2015 15:16	0.164	0.0483	
11/18/2015 15:15	0.164	0.048	
11/18/2015 15:14	0.164	0.0485	
11/18/2015 15:13		0.0476	
11/18/2015 15:12		0.0475	Downwind No. 1 PID reading erroneous. Verified 0.0 ppm reading with handheld PID. Calibrated Downwind PID.
	5.32		
11/18/2015 15:11	5.285	0.0475	
11/18/2015 15:10	5.285	0.0463	
11/18/2015 15:09	5.285	0.0356	
11/18/2015 15:08	5.256	0.0357	
11/18/2015 15:07	5.234	0.0311	
11/18/2015 15:06	5.234	0.0312	
11/18/2015 15:05	5.234	0.0307	
11/18/2015 15:04	5.209	0.0297	
11/18/2015 15:03	5.191	0.0256	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/18/2015 15:02	5.191	0.0176	
11/18/2015 15:01	5.191	0.0165	
11/18/2015 15:00	5.17	0.0167	
11/18/2015 14:59	5.163	0.0158	
11/18/2015 14:58	5.143	0.0167	
11/18/2015 14:57	5.109	0.0233	
11/18/2015 14:56	5.109	0.023	
11/18/2015 14:55	5.086	0.0229	
11/18/2015 14:54	5.086	0.0225	
11/18/2015 14:53	5.027	0.0221	
11/18/2015 14:52	4.988	0.022	
11/18/2015 14:51	4.968	0.0213	
11/18/2015 14:50	4.968	0.0211	
11/18/2015 14:49	4.88	0.0199	
11/18/2015 14:48	4.88	0.0199	
11/18/2015 14:47	4.88	0.0195	
11/18/2015 14:46	4.876	0.0211	
11/18/2015 14:45	4.876	0.0204	
11/18/2015 14:44	4.876	0.0225	
11/18/2015 14:43	4.856	0.024	
11/18/2015 14:42	4.856	0.0167	
11/18/2015 14:41	4.832	0.0167	
11/18/2015 14:40	4.765	0.0165	
11/18/2015 14:39	4.765	0.0165	
11/18/2015 14:38	4.762	0.0165	
11/18/2015 14:37	4.762	0.0163	
11/18/2015 14:36	4.762	0.0163	
11/18/2015 14:35	4.726	0.0157	
11/18/2015 14:34	4.657	0.0155	
11/18/2015 14:33	4.657	0.0155	
11/18/2015 14:32	4.603	0.0151	
11/18/2015 14:31	4.577	0.0135	
11/18/2015 14:30	4.577	0.0134	
11/18/2015 14:29	4.577	0.0112	
11/18/2015 14:28	4.477	0.0086	
11/18/2015 14:27	4.477	0.0086	
11/18/2015 14:26	4.477	0.0085	
11/18/2015 14:25	4.477	0.0085	
11/18/2015 14:24	4.477	0.0085	
11/18/2015 14:23	4.477	0.0087	
11/18/2015 14:22	4.477	0.0087	
11/18/2015 14:21	4.432	0.0087	
11/18/2015 14:20	4.432	0.0084	
11/18/2015 14:19	4.378	0.0084	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/18/2015 14:18	4.378	0.0085	
11/18/2015 14:17	4.378	0.0088	
11/18/2015 14:16	4.378	0.0103	
11/18/2015 14:15	4.378	0.0104	
11/18/2015 14:14	4.362	0.0103	
11/18/2015 14:13	4.362	0.0103	
11/18/2015 14:12	4.362	0.0107	
11/18/2015 14:11	4.362	0.0119	
11/18/2015 14:10	4.362	0.0139	
11/18/2015 14:09	4.35	0.0144	
11/18/2015 14:08	4.35	0.0192	
11/18/2015 14:07	4.35	0.0213	
11/18/2015 14:06	4.324	0.022	
11/18/2015 14:05	4.304	0.0229	
11/18/2015 14:04	4.304	0.0241	
11/18/2015 14:03	4.274	0.0293	
11/18/2015 14:02	4.205	0.0297	
11/18/2015 14:01	4.205	0.0307	
11/18/2015 14:00	4.205	0.0323	
11/18/2015 13:59	4.146	0.0329	
11/18/2015 13:58	4.146	0.0329	
11/18/2015 13:57	4.09	0.0328	
11/18/2015 13:56	4.09	0.0317	
11/18/2015 13:55	4.09	0.0299	
11/18/2015 13:54	4.066	0.0347	
11/18/2015 13:53	4.066	0.0305	
11/18/2015 13:52	4.066	0.0295	
11/18/2015 13:51	4.021	0.0296	
11/18/2015 13:50	4.021	0.0315	
11/18/2015 13:49	4.021	0.0317	
11/18/2015 13:48	4.021	0.0279	
11/18/2015 13:47	3.994	0.0272	
11/18/2015 13:46	3.994	0.0261	
11/18/2015 13:45	3.994	0.0247	
11/18/2015 13:44	3.972	0.0271	
11/18/2015 13:43	3.972	0.0303	
11/18/2015 13:42	3.972	0.0303	
11/18/2015 13:41	3.972	0.0306	
11/18/2015 13:40	3.972	0.0316	
11/18/2015 13:39	3.968	0.0261	
11/18/2015 13:38	3.968	0.0252	
11/18/2015 13:37	3.968	0.0241	
11/18/2015 13:36	3.968	0.0231	
11/18/2015 13:35	3.863	0.0201	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/18/2015 13:34	3.863	0.0186	
11/18/2015 13:33	3.863	0.0171	
11/18/2015 13:32	3.863	0.0169	
11/18/2015 13:31	3.863	0.0155	
11/18/2015 13:30	3.861	0.015	
11/18/2015 13:29	3.861	0.0121	
11/18/2015 13:28	3.861	0.009	
11/18/2015 13:27	3.861	0.0089	
11/18/2015 13:26	3.861	0.0083	
11/18/2015 13:25	3.861	0.0071	
11/18/2015 13:24	3.861	0.0071	
11/18/2015 13:23	3.861	0.0076	
11/18/2015 13:22	3.861	0.0091	
11/18/2015 13:21	3.772	0.0091	
11/18/2015 13:20	3.772	0.0103	
11/18/2015 13:19	3.772	0.0108	
11/18/2015 13:18	3.772	0.0109	
11/18/2015 13:17	3.772	0.011	
11/18/2015 13:16	3.772	0.0109	
11/18/2015 13:15	3.772	0.0111	
11/18/2015 13:14	3.772	0.0111	
11/18/2015 13:13	3.772	0.0117	
11/18/2015 13:12	3.772	0.0115	
11/18/2015 13:11	3.772	0.0115	
11/18/2015 13:10	3.772	0.0118	
11/18/2015 13:09	3.772	0.0117	
11/18/2015 13:08	3.772	0.0113	
11/18/2015 13:07	3.772	0.0116	
11/18/2015 13:06	3.829	0.0117	
11/18/2015 13:05	3.829	0.0108	
11/18/2015 13:04	3.829	0.0103	
11/18/2015 13:03	3.829	0.0101	
11/18/2015 13:02	3.829	0.0101	
11/18/2015 13:01	3.829	0.0123	
11/18/2015 13:00	3.829	0.0124	
11/18/2015 12:59	3.822	0.0131	
11/18/2015 12:58	3.822	0.0127	
11/18/2015 12:57	3.822	0.0125	
11/18/2015 12:56	3.789	0.0126	
11/18/2015 12:55	3.789	0.0123	
11/18/2015 12:54	3.789	0.0134	
11/18/2015 12:53	3.789	0.0147	
11/18/2015 12:52	3.741	0.013	
11/18/2015 12:51	3.741	0.0137	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/18/2015 12:50	3.741	0.0208	
11/18/2015 12:49	3.741	0.0212	
11/18/2015 12:48	3.741	0.0237	
11/18/2015 12:47	3.741	0.0239	
11/18/2015 12:46	3.741	0.0231	
11/18/2015 12:45	3.741	0.0235	
11/18/2015 12:44	3.741	0.0275	
11/18/2015 12:43	3.741	0.0281	
11/18/2015 12:42	3.741	0.0293	
11/18/2015 12:41	3.741	0.0308	
11/18/2015 12:40	3.716	0.0311	
11/18/2015 12:39	3.716	0.0315	
11/18/2015 12:38	3.716	0.0306	
11/18/2015 12:37	3.716	0.0362	
11/18/2015 12:36	3.716	0.0381	
11/18/2015 12:35	3.716	0.0353	
11/18/2015 12:34	3.701	0.035	
11/18/2015 12:33	3.659	0.0353	
11/18/2015 12:32	3.659	0.0354	
11/18/2015 12:31	3.659	0.0341	
11/18/2015 12:30	3.659	0.0345	
11/18/2015 12:29	3.659	0.031	
11/18/2015 12:28	3.659	0.0303	
11/18/2015 12:27	3.659	0.0299	
11/18/2015 12:26	3.659	0.0289	
11/18/2015 12:25	3.659	0.0287	
11/18/2015 12:24	3.646	0.0277	
11/18/2015 12:23	3.646	0.0276	
11/18/2015 12:22	3.646	0.0219	
11/18/2015 12:21	3.646	0.0192	
11/18/2015 12:20	3.646	0.015	
11/18/2015 12:19	3.646	0.0149	
11/18/2015 12:18	3.646	0.013	
11/18/2015 12:17	3.646	0.0126	
11/18/2015 12:16	3.646	0.0125	
11/18/2015 12:15	3.599	0.0113	
11/18/2015 12:14	3.599	0.0101	
11/18/2015 12:13	3.599	0.0098	
11/18/2015 12:12	3.599	0.0089	
11/18/2015 12:11	3.599	0.0084	
11/18/2015 12:10	3.599	0.0083	
11/18/2015 12:09	3.575	0.0079	
11/18/2015 12:08	3.549	0.0074	
11/18/2015 12:07	3.549	0.0073	

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Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/18/2015 12:06	3.518	0.0073	
11/18/2015 12:05	3.518	0.007	
11/18/2015 12:04	3.504	0.007	
11/18/2015 12:03	3.494	0.0061	
11/18/2015 12:02	3.433	0.0061	
11/18/2015 12:01	3.429	0.0062	
11/18/2015 12:00	3.335	0.0063	
11/18/2015 11:59	3.335	0.0064	
11/18/2015 11:58	3.335	0.0065	
11/18/2015 11:57	3.335	0.0065	
11/18/2015 11:56	3.314	0.0066	
11/18/2015 11:55	3.227	0.0067	
11/18/2015 11:54	3.227	0.0067	
11/18/2015 11:53	3.227	0.0067	
11/18/2015 11:52	3.227	0.0067	
11/18/2015 11:51	3.227	0.0068	
11/18/2015 11:50	3.227	0.0068	
11/18/2015 11:49	3.227	0.0069	
11/18/2015 11:48	3.227	0.0069	
11/18/2015 11:47	3.196	0.007	
11/18/2015 11:46	3.192	0.007	
11/18/2015 11:45	3.192	0.007	
11/18/2015 11:44	3.192	0.0069	
11/18/2015 11:43	3.192	0.0069	
11/18/2015 11:42	3.192	0.0069	
11/18/2015 11:41	3.177	0.0069	
11/18/2015 11:40	3.177	0.0069	
11/18/2015 11:39	3.111	0.0069	
11/18/2015 11:38	3.111	0.007	
11/18/2015 11:37	3.111	0.007	
11/18/2015 11:36	3.111	0.007	
11/18/2015 11:35	3.111	0.007	
11/18/2015 11:34	3.111	0.007	
11/18/2015 11:33	3.111	0.007	
11/18/2015 11:32	3.111	0.007	
11/18/2015 11:31	3.111	0.0071	
11/18/2015 11:30	3.111	0.0071	
11/18/2015 11:29	3.111	0.0071	
11/18/2015 11:28	3.111	0.0071	
11/18/2015 11:27	3.111	0.0071	
11/18/2015 11:26	3.111	0.0071	
11/18/2015 11:25	3.111	0.0071	
11/18/2015 11:24	3.117	0.0071	
11/18/2015 11:23	3.061	0.0071	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/18/2015 11:22	3.061	0.0071	
11/18/2015 11:21	2.955	0.0071	
11/18/2015 11:20	2.955	0.0071	
11/18/2015 11:19	2.955	0.0071	
11/18/2015 11:18	2.955	0.0071	
11/18/2015 11:17	2.955	0.0071	
11/18/2015 11:16	2.955	0.0071	
11/18/2015 11:15	2.955	0.0071	
11/18/2015 11:14	2.955	0.0071	
11/18/2015 11:13	2.946	0.0071	
11/18/2015 11:12	2.946	0.0071	
11/18/2015 11:11	2.946	0.0071	
11/18/2015 11:10	2.918	0.0071	
11/18/2015 11:09	2.918	0.0071	
11/18/2015 11:08	2.896	0.0071	
11/18/2015 11:07	2.896	0.0071	
11/18/2015 11:06	2.896	0.0071	
11/18/2015 11:05	2.896	0.0071	
11/18/2015 11:04	2.896	0.007	
11/18/2015 11:03	2.896	0.0069	
11/18/2015 11:02	2.896	0.0069	
11/18/2015 11:01	2.8	0.0068	
11/18/2015 11:00	2.8	0.0068	
11/18/2015 10:59	2.8	0.0068	
11/18/2015 10:58	2.8	0.0069	
11/18/2015 10:57	2.8	0.0068	
11/18/2015 10:56	2.8	0.0068	
11/18/2015 10:55	2.723	0.0068	
11/18/2015 10:54	2.723	0.0068	
11/18/2015 10:53	2.723	0.0067	
11/18/2015 10:52	2.723	0.0067	
11/18/2015 10:51	2.723	0.0066	
11/18/2015 10:50	2.723	0.0067	
11/18/2015 10:49	2.723	0.0067	
11/18/2015 10:48	2.723	0.0068	
11/18/2015 10:47	2.723	0.0067	
11/18/2015 10:46	2.723	0.0067	
11/18/2015 10:45	2.723	0.0067	
11/18/2015 10:44	2.723	0.0067	
11/18/2015 10:43	2.723	0.0067	
11/18/2015 10:42	2.723	0.0067	
11/18/2015 10:41	2.723	0.0067	
11/18/2015 10:40	2.679	0.0067	
11/18/2015 10:39	2.679	0.0067	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/18/2015 10:38	2.679	0.0067	
11/18/2015 10:37	2.679	0.0068	
11/18/2015 10:36	2.679	0.0068	
11/18/2015 10:35	2.679	0.0068	
11/18/2015 10:34	2.679	0.0068	
11/18/2015 10:33	2.679	0.0068	
11/18/2015 10:32	2.679	0.0068	
11/18/2015 10:31	2.654	0.0068	
11/18/2015 10:30	2.654	0.0069	
11/18/2015 10:29	2.654	0.0069	
11/18/2015 10:28	2.654	0.0069	
11/18/2015 10:27	2.654	0.0069	
11/18/2015 10:26	2.654	0.007	
11/18/2015 10:25	2.654	0.007	
11/18/2015 10:24	2.654	0.007	
11/18/2015 10:23	2.654	0.0071	
11/18/2015 10:22	2.654	0.0071	
11/18/2015 10:21	2.654	0.0071	
11/18/2015 10:20	2.654	0.0071	
11/18/2015 10:19	2.654	0.0071	
11/18/2015 10:18	2.654	0.0071	
11/18/2015 10:17	2.654	0.0071	
11/18/2015 10:16	2.66	0.0071	
11/18/2015 10:15	2.639	0.0071	
11/18/2015 10:14	2.639	0.0072	
11/18/2015 10:13	2.639	0.0072	
11/18/2015 10:12	2.639	0.0073	
11/18/2015 10:11	2.639	0.0073	
11/18/2015 10:10	2.639	0.0074	
11/18/2015 10:09	2.639	0.0074	
11/18/2015 10:08	2.639	0.0074	
11/18/2015 10:07	2.639	0.0076	
11/18/2015 10:06	2.639	0.0076	
11/18/2015 10:05	2.639	0.0077	
11/18/2015 10:04	2.639	0.0078	
11/18/2015 10:03	2.639	0.0079	
11/18/2015 10:02	2.639	0.0079	
11/18/2015 10:01	2.639	0.008	
11/18/2015 10:00	2.694	0.0081	
11/18/2015 9:59	2.694	0.0081	
11/18/2015 9:58	2.694	0.0081	
11/18/2015 9:57	2.773	0.0082	
11/18/2015 9:56	2.773	0.0083	
11/18/2015 9:54		0.0083	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/18/2015 9:53	2.783	0.0083	
11/18/2015 9:52	2.783	0.0081	
11/18/2015 9:51	2.837	0.0083	
11/18/2015 9:50	2.837	0.0083	
11/18/2015 9:49	2.837	0.0083	
11/18/2015 9:48	2.837	0.0083	
11/18/2015 9:47	2.837	0.0083	
11/18/2015 9:46	2.837	0.0083	
11/18/2015 9:45	2.837	0.0083	
11/18/2015 9:44	2.837	0.0083	
11/18/2015 9:43	2.837	0.0083	
11/18/2015 9:42	2.837	0.0082	
11/18/2015 9:41	2.837	0.0082	
11/18/2015 9:40	2.837	0.0083	
11/18/2015 9:39	2.778	0.0083	
11/18/2015 9:38	2.778	0.0084	
11/18/2015 9:37	2.772	0.0085	
11/18/2015 9:36	2.702	0.0085	
11/18/2015 9:35	2.702	0.0086	
11/18/2015 9:34	2.702	0.0087	
11/18/2015 9:33	2.696	0.0087	
11/18/2015 9:32	2.683	0.0089	
11/18/2015 9:31	2.683	0.009	
11/18/2015 9:30	2.683	0.0097	
11/18/2015 9:29	2.683	0.0097	
11/18/2015 9:28	2.627	0.0099	
11/18/2015 9:27	2.627	0.0104	
11/18/2015 9:26	2.627	0.0105	
11/18/2015 9:25	2.605	0.0105	
11/18/2015 9:24	2.605	0.0107	
11/18/2015 9:23	2.598	0.0108	
11/18/2015 9:22	2.598	0.0109	
11/18/2015 9:21	2.587	0.0109	
11/18/2015 9:20	2.524	0.011	
11/18/2015 9:19	2.524	0.0111	
11/18/2015 9:18	2.524	0.0112	
11/18/2015 9:17	2.524	0.0111	
11/18/2015 9:16	2.467	0.0111	
11/18/2015 9:15	2.467	0.0106	
11/18/2015 9:14	2.467	0.0107	
11/18/2015 9:13	2.467	0.0107	
11/18/2015 9:12	2.364	0.0103	
11/18/2015 9:11	2.361	0.0102	
11/18/2015 9:10	2.29	0.0105	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/18/2015 9:09	2.29	0.0103	
11/18/2015 9:08	2.246	0.0104	
11/18/2015 9:07	2.246	0.0103	
11/18/2015 9:06	2.221	0.0103	
11/18/2015 9:05	2.168	0.0103	
11/18/2015 9:04	2.125	0.0103	
11/18/2015 9:03	2.095	0.0103	
11/18/2015 9:02	2.067	0.0103	
11/18/2015 9:01	2.067	0.0103	
11/18/2015 9:00	2.057	0.0104	
11/18/2015 8:59	2.037	0.0104	
11/18/2015 8:58	1.964	0.0104	
11/18/2015 8:57	1.964	0.0104	
11/18/2015 8:56	1.911	0.0105	
11/18/2015 8:55	1.911	0.0102	
11/18/2015 8:54	1.868	0.0102	
11/18/2015 8:53	1.807	0.0103	
11/18/2015 8:52	1.78	0.0103	
11/18/2015 8:51	1.74	0.0103	
11/18/2015 8:50	1.74	0.0103	
11/18/2015 8:49	1.682	0.0115	
11/18/2015 8:48	1.669	0.0115	
11/18/2015 8:47	1.641	0.0115	
11/18/2015 8:46	1.604	0.0115	
11/18/2015 8:45	1.536	0.0115	
11/18/2015 8:44	1.536	0.0115	
11/18/2015 8:43	1.466	0.0115	
11/18/2015 8:42	1.423	0.0115	
11/18/2015 8:41	1.362	0.0115	
11/18/2015 8:40	1.301	0.0115	
11/18/2015 8:39	1.237	0.0116	
11/18/2015 8:38	1.237	0.0116	
11/18/2015 8:37	1.099	0.0117	
11/18/2015 8:36	0.974	0.0121	
11/18/2015 8:35	0.905	0.0122	
11/18/2015 8:34	0.787	0.0109	
11/18/2015 8:33	0.672	0.0108	
11/18/2015 8:32	0.672	0.0109	
11/18/2015 8:31	0.672	0.0109	
11/18/2015 8:30	0.672	0.011	
11/18/2015 8:29	0.672	0.011	
11/18/2015 8:28	0.672	0.0111	
11/18/2015 8:27	0.672	0.0113	
11/18/2015 8:26	0.672	0.0115	

PHILIPS LIGHTING COMPANY BATH FACILITY - IRMs 2-6

Timestamp (GMT-5)	VOC (Min15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)	Comments
11/18/2015 8:25	0.672	0.0118	
11/18/2015 8:23	0.672		
11/18/2015 8:22	0.672	0.012	
11/18/2015 8:21	0.672	0.0107	
11/18/2015 8:20	0.672	0.0105	
11/18/2015 8:19	0.672	0.01	

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/24/2015 16:02	0	0.0239
11/24/2015 16:01	0	0.024
11/24/2015 16:00	0	0.024
11/24/2015 15:59	0	0.024
11/24/2015 15:58	0	0.0241
11/24/2015 15:57	0	0.0241
11/24/2015 15:56	0	0.0241
11/24/2015 15:55	0	0.0241
11/24/2015 15:54	0	0.0241
11/24/2015 15:53	0	0.0241
11/24/2015 15:52	0	0.024
11/24/2015 15:51	0	0.0239
11/24/2015 15:50	0	0.0237
11/24/2015 15:49	0	0.0237
11/24/2015 15:48	0	0.0237
11/24/2015 15:47	0	0.0235
11/24/2015 15:46	0	0.0235
11/24/2015 15:45	0	0.0233
11/24/2015 15:44	0	0.0233
11/24/2015 15:43	0	0.0233
11/24/2015 15:42	0	0.0232
11/24/2015 15:41	0	0.0232
11/24/2015 15:40	0	0.0233
11/24/2015 15:39	0	0.0233
11/24/2015 15:38	0	0.0233
11/24/2015 15:37	0	0.0233
11/24/2015 15:36	0	0.0234
11/24/2015 15:35	0	0.0235
11/24/2015 15:34	0	0.0235
11/24/2015 15:33	0	0.0237
11/24/2015 15:32	0	0.0238
11/24/2015 15:31	0	0.0239
11/24/2015 15:30	0	0.0241
11/24/2015 15:29	0	0.0241
11/24/2015 15:28	0	0.0241
11/24/2015 15:27	0	0.0242
11/24/2015 15:26	0	0.0242
11/24/2015 15:25	0	0.0241
11/24/2015 15:24	0	0.0241
11/24/2015 15:23	0	0.0241
11/24/2015 15:22	0	0.0241
11/24/2015 15:21	0	0.0241
11/24/2015 15:20	0	0.0241
11/24/2015 15:19	0	0.024
11/24/2015 15:18	0	0.0239

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/24/2015 15:17	0	0.0239
11/24/2015 15:16	0	0.0239
11/24/2015 15:15	0	0.0239
11/24/2015 15:14	0	0.0239
11/24/2015 15:13	0	0.0239
11/24/2015 15:12	0	0.0239
11/24/2015 15:11	0	0.0239
11/24/2015 15:10	0	0.0239
11/24/2015 15:09	0	0.0239
11/24/2015 15:08	0	0.0239
11/24/2015 15:07	0	0.0239
11/24/2015 15:06	0	0.0239
11/24/2015 15:05	0	0.0239
11/24/2015 15:04	0	0.0239
11/24/2015 15:03	0	0.0239
11/24/2015 15:02	0	0.0238
11/24/2015 15:01	0	0.0238
11/24/2015 15:00	0	0.0237
11/24/2015 14:59	0	0.0238
11/24/2015 14:58	0	0.0237
11/24/2015 14:57	0	0.0237
11/24/2015 14:56	0	0.0237
11/24/2015 14:55	0	0.0236
11/24/2015 14:54	0	0.0235
11/24/2015 14:53	0	0.0235
11/24/2015 14:52	0	0.0235
11/24/2015 14:51	0	0.0234
11/24/2015 14:50	0	0.0233
11/24/2015 14:49	0	0.0233
11/24/2015 14:48	0	0.0233
11/24/2015 14:47	0	0.0233
11/24/2015 14:46	0	0.0231
11/24/2015 14:45	0	0.0231
11/24/2015 14:44	0	0.0229
11/24/2015 14:43	0	0.0229
11/24/2015 14:42	0	0.0229
11/24/2015 14:41	0	0.0229
11/24/2015 14:40	0	0.0229
11/24/2015 14:39	0	0.0229
11/24/2015 14:38	0	0.0229
11/24/2015 14:37	0	0.0228
11/24/2015 14:36	0	0.0227
11/24/2015 14:35	0	0.0227
11/24/2015 14:34	0	0.0227

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/24/2015 14:33	0	0.0227
11/24/2015 14:32	0	0.0227
11/24/2015 14:31	0	0.0227
11/24/2015 14:30	0	0.0227
11/24/2015 14:29	0	0.0227
11/24/2015 14:28	0	0.0227
11/24/2015 14:27	0	0.0227
11/24/2015 14:26	0	0.0227
11/24/2015 14:25	0	0.0227
11/24/2015 14:24	0	0.0229
11/24/2015 14:23	0	0.0229
11/24/2015 14:22	0	0.0231
11/24/2015 14:21	0	0.0232
11/24/2015 14:20	0	0.0234
11/24/2015 14:19	0	0.0234
11/24/2015 14:18	0	0.0235
11/24/2015 14:17	0	0.0235
11/24/2015 14:16	0	0.0235
11/24/2015 14:15	0	0.0235
11/24/2015 14:14	0	0.0237
11/24/2015 14:13	0	0.0237
11/24/2015 14:12	0	0.0238
11/24/2015 14:11	0	0.0239
11/24/2015 14:10	0	0.0238
11/24/2015 14:09	0	0.0238
11/24/2015 14:08	0	0.0238
11/24/2015 14:07	0	0.0238
11/24/2015 14:06	0	0.0237
11/24/2015 14:05	0	0.0236
11/24/2015 14:04	0	0.0237
11/24/2015 14:03	0	0.0237
11/24/2015 14:02	0	0.0237
11/24/2015 14:01	0	0.0237
11/24/2015 14:00	0	0.0237
11/24/2015 13:59	0	0.0237
11/24/2015 13:58	0	0.0236
11/24/2015 13:57	0	0.0236
11/24/2015 13:56	0	0.0235
11/24/2015 13:55	0.0019	0.0235
11/24/2015 13:54	0.0021	0.0234
11/24/2015 13:53	0.0043	0.0233
11/24/2015 13:52	0.005	0.0233
11/24/2015 13:51	0.0056	0.0233
11/24/2015 13:50	0.0062	0.0232

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/24/2015 13:49	0.0069	0.0231
11/24/2015 13:48	0.0077	0.0229
11/24/2015 13:47	0.0085	0.0228
11/24/2015 13:46	0.0093	0.0227
11/24/2015 13:45	0.0101	0.0227
11/24/2015 13:44	0.0111	0.0226
11/24/2015 13:43	0.0121	0.0226
11/24/2015 13:42	0.0131	0.0225
11/24/2015 13:41	0.0143	0.0225
11/24/2015 13:40	0.0135	0.0223
11/24/2015 13:39	0.0145	0.0224
11/24/2015 13:38	0.0135	0.0224
11/24/2015 13:37	0.0141	0.0223
11/24/2015 13:36	0.0148	0.0224
11/24/2015 13:35	0.0154	0.0224
11/24/2015 13:34	0.0161	0.0225
11/24/2015 13:33	0.0167	0.0225
11/24/2015 13:32	0.0175	0.0227
11/24/2015 13:31	0.0185	0.0228
11/24/2015 13:30	0.0199	0.0229
11/24/2015 13:29	0.0209	0.023
11/24/2015 13:28	0.0231	0.0231
11/24/2015 13:27	0.0241	0.0233
11/24/2015 13:26	0.0251	0.0233
11/24/2015 13:25	0.026	0.0235
11/24/2015 13:24	0.027	0.0235
11/24/2015 13:23	0.0281	0.0236
11/24/2015 13:22	0.0292	0.0237
11/24/2015 13:21	0.0304	0.0237
11/24/2015 13:20	0.0318	0.024
11/24/2015 13:19	0.033	0.0241
11/24/2015 13:18	0.0345	0.0243
11/24/2015 13:17	0.0357	0.0249
11/24/2015 13:16	0.0367	0.0249
11/24/2015 13:15	0.0373	0.0249
11/24/2015 13:14	0.0381	0.025
11/24/2015 13:13	0.0381	0.0249
11/24/2015 13:12	0.0391	0.0249
11/24/2015 13:11	0.04	0.0249
11/24/2015 13:10	0.0409	0.0249
11/24/2015 13:09	0.042	0.0249
11/24/2015 13:08	0.0429	0.025
11/24/2015 13:07	0.0436	0.025
11/24/2015 13:06	0.0443	0.025

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/24/2015 13:05	0.045	0.0248
11/24/2015 13:04	0.0457	0.0247
11/24/2015 13:03	0.0461	0.0248
11/24/2015 13:02	0.0465	0.0242
11/24/2015 13:01	0.0469	0.0243
11/24/2015 13:00	0.0473	0.0243
11/24/2015 12:59	0.0477	0.0244
11/24/2015 12:58	0.0481	0.0245
11/24/2015 12:57	0.0486	0.0247
11/24/2015 12:56	0.0491	0.0247
11/24/2015 12:55	0.0495	0.0249
11/24/2015 12:54	0.0498	0.0249
11/24/2015 12:53	0.0502	0.025
11/24/2015 12:52	0.0508	0.0251
11/24/2015 12:51	0.0513	0.0252
11/24/2015 12:50	0.0517	0.0253
11/24/2015 12:49	0.0521	0.0255
11/24/2015 12:48	0.0526	0.0255
11/24/2015 12:47	0.0531	0.0255
11/24/2015 12:46	0.0537	0.0259
11/24/2015 12:45	0.0539	0.0259
11/24/2015 12:44	0.0543	0.0259
11/24/2015 12:43	0.0545	0.026
11/24/2015 12:42	0.0547	0.026
11/24/2015 12:41	0.0549	0.0261
11/24/2015 12:40	0.0554	0.0263
11/24/2015 12:39	0.0556	0.0263
11/24/2015 12:38	0.0558	0.0264
11/24/2015 12:37	0.0559	0.0265
11/24/2015 12:36	0.0563	0.0266
11/24/2015 12:35	0.0561	0.0266
11/24/2015 12:34	0.0563	0.0267
11/24/2015 12:33	0.0562	0.0267
11/24/2015 12:32	0.0565	0.0267
11/24/2015 12:31	0.0565	0.0264
11/24/2015 12:30	0.0569	0.0265
11/24/2015 12:29	0.0571	0.0265
11/24/2015 12:28	0.0572	0.0265
11/24/2015 12:27	0.0571	0.0265
11/24/2015 12:26	0.0571	0.0265
11/24/2015 12:25	0.0569	0.0263
11/24/2015 12:24	0.0567	0.0263
11/24/2015 12:23	0.0565	0.0261
11/24/2015 12:22	0.0562	0.0261

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/24/2015 12:21	0.0558	0.026
11/24/2015 12:20	0.0557	0.026
11/24/2015 12:19	0.0551	0.0259
11/24/2015 12:18	0.0545	0.0259
11/24/2015 12:17	0.0539	0.0259
11/24/2015 12:16	0.0533	0.0259
11/24/2015 12:15	0.0522	0.0259
11/24/2015 12:14	0.0513	0.0259
11/24/2015 12:13	0.0505	0.026
11/24/2015 12:12	0.0495	0.026
11/24/2015 12:11	0.0485	0.026
11/24/2015 12:10	0.0475	0.026
11/24/2015 12:09	0.0461	0.026
11/24/2015 12:08	0.0447	0.0261
11/24/2015 12:07	0.0437	0.0261
11/24/2015 12:06	0.0421	0.0262
11/24/2015 12:05	0.0405	0.0263
11/24/2015 12:04	0.0391	0.0263
11/24/2015 12:03	0.0376	0.0263
11/24/2015 12:02	0.0359	0.0264
11/24/2015 12:01	0.0342	0.0265
11/24/2015 12:00	0.0325	0.0266
11/24/2015 11:59	0.0308	0.0267
11/24/2015 11:58	0.0286	0.0267
11/24/2015 11:57	0.0267	0.0268
11/24/2015 11:56	0.0245	0.0269
11/24/2015 11:55	0.0222	0.0269
11/24/2015 11:54	0.0201	0.027
11/24/2015 11:53	0.0178	0.0271
11/24/2015 11:52	0.0153	0.0271
11/24/2015 11:51	0.0133	0.0271
11/24/2015 11:50	0.0113	0.0273
11/24/2015 11:49	0.0095	0.0275
11/24/2015 11:48	0.0079	0.0277
11/24/2015 11:47	0.0063	0.0277
11/24/2015 11:46	0.0048	0.0277
11/24/2015 11:45	0.0036	0.0278
11/24/2015 11:44	0.0024	0.0278
11/24/2015 11:43	0.0017	0.0279
11/24/2015 11:42	0.0009	0.0279
11/24/2015 11:41	0.0003	0.028
11/24/2015 11:40	0	0.0281
11/24/2015 11:39	0	0.0283
11/24/2015 11:38	0	0.0283

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/24/2015 11:37	0	0.0285
11/24/2015 11:36	0	0.0286
11/24/2015 11:35	0	0.0286
11/24/2015 11:34	0	0.0284
11/24/2015 11:33	0	0.0285
11/24/2015 11:32	0	0.0286
11/24/2015 11:31	0	0.0287
11/24/2015 11:30	0	0.0287
11/24/2015 11:29	0	0.0289
11/24/2015 11:28	0	0.0291
11/24/2015 11:27	0	0.0293
11/24/2015 11:26	0	0.0295
11/24/2015 11:25	0	0.0296
11/24/2015 11:24	0	0.0298
11/24/2015 11:23	0	0.03
11/24/2015 11:22	0	0.0303
11/24/2015 11:21	0	0.0306
11/24/2015 11:20	0	0.0309
11/24/2015 11:19	0	0.0313
11/24/2015 11:18	0	0.0316
11/24/2015 11:17	0	0.0321
11/24/2015 11:16	0	0.0325
11/24/2015 11:15	0	0.0329
11/24/2015 11:14	0	0.0333
11/24/2015 11:13	0	0.0336
11/24/2015 11:12	0	0.0339
11/24/2015 11:11	0	0.0341
11/24/2015 11:10	0	0.0344
11/24/2015 11:09	0	0.0346
11/24/2015 11:08	0	0.0348
11/24/2015 11:07	0	0.035
11/24/2015 11:06	0	0.0351
11/24/2015 11:05	0	0.0354
11/24/2015 11:04	0	0.0356
11/24/2015 11:03	0	0.0357
11/24/2015 11:02	0	0.0356
11/24/2015 11:01	0	0.0355
11/24/2015 11:00	0	0.036
11/24/2015 10:59	0	0.036
11/24/2015 10:58	0	0.036
11/23/2015 17:07	0	
11/23/2015 17:06		
11/23/2015 16:36	0	
11/23/2015 16:35	0	

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/23/2015 16:34		
11/23/2015 16:33	0	
11/23/2015 16:32	0	
11/23/2015 16:31	0	
11/23/2015 16:30	0	
11/23/2015 16:29	0	
11/23/2015 16:28	0	
11/23/2015 16:27		
11/23/2015 16:26	0	
11/23/2015 16:25	0	
11/23/2015 16:24	0	
11/23/2015 16:23	0	
11/23/2015 16:22	0	
11/23/2015 16:21		
11/23/2015 16:20	0	
11/23/2015 16:19	0	
11/23/2015 16:18	0	
11/23/2015 16:17	0	
11/23/2015 16:16	0	
11/23/2015 16:15	0	
11/23/2015 16:14		
11/23/2015 16:13	0	
11/23/2015 16:12	0	
11/23/2015 16:11	0	
11/23/2015 16:10	0	
11/23/2015 16:09	0	
11/23/2015 16:08	0	
11/23/2015 16:07		
11/23/2015 16:06	0	
11/23/2015 16:05	0	
11/23/2015 16:04	0	
11/23/2015 16:03	0	
11/23/2015 16:02	0	
11/23/2015 16:01		
11/23/2015 16:00	0	
11/23/2015 15:59	0	
11/23/2015 15:58	0	
11/23/2015 15:57	0	
11/23/2015 15:56	0	
11/23/2015 15:55	0	
11/23/2015 15:54		
11/23/2015 15:53	0	
11/23/2015 15:52	0	
11/23/2015 15:51	0	

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/23/2015 15:50	0	
11/23/2015 15:49	0	
11/23/2015 15:48	0	
11/23/2015 15:47		
11/23/2015 15:46	0	
11/23/2015 15:45	0	
11/23/2015 15:44	0	
11/23/2015 15:43	0	
11/23/2015 15:42	0	
11/23/2015 15:41	0	0.0018
11/23/2015 15:40	0	
11/23/2015 15:39	0	
11/23/2015 15:38	0	0.002
11/23/2015 15:37	0	0.002
11/23/2015 15:36	0	0.002
11/23/2015 15:35	0	0.002
11/23/2015 15:34	0	0.002
11/23/2015 15:33	0	0.002
11/23/2015 15:32	0	0.002
11/23/2015 15:31	0	0.002
11/23/2015 15:30	0	0.002
11/23/2015 15:29	0	0.002
11/23/2015 15:28	0	0.002
11/23/2015 15:27	0	0.002
11/23/2015 15:26	0	0.002
11/23/2015 15:25	0	0.002
11/23/2015 15:24	0	0.002
11/23/2015 15:23	0	0.002
11/23/2015 15:22	0	0.002
11/23/2015 15:21	0	0.002
11/23/2015 15:20	0	0.002
11/23/2015 15:19	0	0.002
11/23/2015 15:18	0	0.002
11/23/2015 15:17	0	0.002
11/23/2015 15:16	0	0.002
11/23/2015 15:15	0	0.002
11/23/2015 15:14	0	0.002
11/23/2015 15:13	0	0.002
11/23/2015 15:12	0	0.002
11/23/2015 15:11	0	0.002
11/23/2015 15:10	0	0.002
11/23/2015 15:09	0	0.002
11/23/2015 15:08	0	0.002
11/23/2015 15:07	0	0.002

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/23/2015 15:06	0	0.002
11/23/2015 15:05	0	0.002
11/23/2015 15:04	0	0.002
11/23/2015 15:03	0	0.002
11/23/2015 15:02	0	0.002
11/23/2015 15:01	0	0.002
11/23/2015 15:00	0	0.002
11/23/2015 14:59	0	0.002
11/23/2015 14:58	0	0.002
11/23/2015 14:57	0	0.002
11/23/2015 14:56	0	0.002
11/23/2015 14:55	0	0.002
11/23/2015 14:54	0	0.002
11/23/2015 14:53	0	0.002
11/23/2015 14:52	0	0.002
11/23/2015 14:51	0	0.002
11/23/2015 14:50	0	0.002
11/23/2015 14:49	0	0.002
11/23/2015 14:48	0	0.002
11/23/2015 14:47	0	0.002
11/23/2015 14:46	0	0.002
11/23/2015 14:45	0	0.002
11/23/2015 14:44	0	0.002
11/23/2015 14:43	0	0.002
11/23/2015 14:42	0	0.002
11/23/2015 14:41	0	0.002
11/23/2015 14:40	0.0002	0.002
11/23/2015 14:39	0.0005	0.002
11/23/2015 14:38	0.0009	0.002
11/23/2015 14:37	0.0013	0.002
11/23/2015 14:36	0.0016	0.002
11/23/2015 14:35	0.002	0.002
11/23/2015 14:34	0.0024	0.002
11/23/2015 14:33	0.0029	0.002
11/23/2015 14:32	0.0033	0.002
11/23/2015 14:31	0.0039	0.002
11/23/2015 14:30	0.0042	0.002
11/23/2015 14:29	0.0045	0.002
11/23/2015 14:28		
11/23/2015 14:27	0.0055	0.002
11/23/2015 14:26	0.0063	0.002
11/23/2015 14:25	0.0069	0.002
11/23/2015 14:24	0.0074	0.002
11/23/2015 14:23	0.0079	0.002

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/23/2015 14:22	0.0085	0.002
11/23/2015 14:21	0.0091	0.002
11/23/2015 14:20	0.0096	0.002
11/23/2015 14:19	0.0101	0.002
11/23/2015 14:18	0.0106	0.002
11/23/2015 14:17	0.0108	0.002
11/23/2015 14:16	0.011	0.002
11/23/2015 14:15	0.0116	0.002
11/23/2015 14:14	0.0123	0.002
11/23/2015 14:13	0.0129	0.002
11/23/2015 14:12	0.013	0.002
11/23/2015 14:11	0.0132	0.002
11/23/2015 14:10	0.0135	0.002
11/23/2015 14:09	0.0137	0.002
11/23/2015 14:08	0.0139	0.002
11/23/2015 14:07	0.0139	0.002
11/23/2015 14:06	0.0139	0.002
11/23/2015 14:05	0.0141	0.002
11/23/2015 14:04	0.0144	0.002
11/23/2015 14:03	0.0144	0.002
11/23/2015 14:02	0.0147	0.002
11/23/2015 14:01	0.0149	0.002
11/23/2015 14:00	0.0151	0.002
11/23/2015 13:59	0.0153	0.002
11/23/2015 13:58	0.0155	0.002
11/23/2015 13:57	0.0155	0.002
11/23/2015 13:56	0.0156	0.002
11/23/2015 13:55	0.0158	0.002
11/23/2015 13:54	0.016	0.002
11/23/2015 13:53	0.0165	0.002
11/23/2015 13:52	0.0171	0.002
11/23/2015 13:51	0.0178	0.002
11/23/2015 13:50	0.0183	0.002
11/23/2015 13:49	0.0187	0.002
11/23/2015 13:48	0.0195	0.002
11/23/2015 13:47	0.0205	0.002
11/23/2015 13:46	0.0213	0.002
11/23/2015 13:45	0.022	0.002
11/23/2015 13:44	0.0227	0.002
11/23/2015 13:43	0.0234	0.002
11/23/2015 13:42	0.0242	0.002
11/23/2015 13:41	0.0249	0.002
11/23/2015 13:40	0.0257	0.002
11/23/2015 13:39	0.0266	0.002

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/23/2015 13:38	0.0271	0.002
11/23/2015 13:37	0.0277	0.002
11/23/2015 13:36	0.0282	0.002
11/23/2015 13:35	0.0288	0.002
11/23/2015 13:34	0.0294	0.002
11/23/2015 13:33	0.03	0.002
11/23/2015 13:32	0.0309	0.002
11/23/2015 13:31	0.0318	0.002
11/23/2015 13:30	0.0327	0.002
11/23/2015 13:29	0.0339	0.002
11/23/2015 13:28	0.0353	0.002
11/23/2015 13:27	0.0369	0.002
11/23/2015 13:26	0.0386	0.002
11/23/2015 13:25	0.0402	0.002
11/23/2015 13:24	0.0417	0.002
11/23/2015 13:23	0.0435	0.002
11/23/2015 13:22	0.0455	0.002
11/23/2015 13:21	0.0474	0.002
11/23/2015 13:20	0.049	0.002
11/23/2015 13:19	0.0509	0.002
11/23/2015 13:18	0.0527	0.002
11/23/2015 13:17	0.0541	0.0019
11/23/2015 13:16	0.0555	0.0018
11/23/2015 13:15	0.0567	0.0019
11/23/2015 13:14	0.0576	0.0018
11/23/2015 13:13	0.0582	0.0017
11/23/2015 13:12	0.0587	0.0015
11/23/2015 13:11	0.0597	0.0015
11/23/2015 13:10	0.0604	0.0015
11/23/2015 13:09	0.061	0.0014
11/23/2015 13:08	0.0617	0.0013
11/23/2015 13:07	0.062	0.0013
11/23/2015 13:06	0.0627	0.002
11/23/2015 13:05	0.0639	0.002
11/23/2015 13:04	0.0648	0.0019
11/23/2015 13:03	0.0655	0.0018
11/23/2015 13:02	0.0663	0.0018
11/23/2015 13:01	0.0672	0.0019
11/23/2015 13:00	0.0681	0.0016
11/23/2015 12:59	0.0693	0.0017
11/23/2015 12:58	0.0707	0.0018
11/23/2015 12:57	0.0721	0.0019
11/23/2015 12:56	0.0729	0.0023
11/23/2015 12:55	0.0739	0.0022

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/23/2015 12:54	0.0753	0.0023
11/23/2015 12:53	0.0763	0.0023
11/23/2015 12:52	0.078	0.0022
11/23/2015 12:51	0.0789	0.0014
11/23/2015 12:50	0.0797	0.0013
11/23/2015 12:49	0.0803	0.0013
11/23/2015 12:48	0.0814	0.0015
11/23/2015 12:47	0.0823	0.0016
11/23/2015 12:46	0.083	0.0015
11/23/2015 12:45	0.0839	0.0015
11/23/2015 12:44	0.0849	0.0015
11/23/2015 12:43	0.0863	0.0015
11/23/2015 12:42	0.0871	0.0015
11/23/2015 12:41	0.0879	0.001
11/23/2015 12:40	0.0885	0.0011
11/23/2015 12:39	0.089	0.0011
11/23/2015 12:38	0.0894	0.0013
11/23/2015 12:37	0.0891	0.0013
11/23/2015 12:36	0.0891	0.0013
11/23/2015 12:35	0.0892	0.0015
11/23/2015 12:34	0.0895	0.0015
11/23/2015 12:33	0.0896	0.0013
11/23/2015 12:32	0.0899	0.0015
11/23/2015 12:31	0.0903	0.0015
11/23/2015 12:30	0.0907	0.0015
11/23/2015 12:29	0.0911	0.0017
11/23/2015 12:28	0.0906	0.0017
11/23/2015 12:27	0.0905	0.0017
11/23/2015 12:26	0.0905	0.0017
11/23/2015 12:25	0.0907	0.0017
11/23/2015 12:24	0.0909	0.0017
11/23/2015 12:23	0.0914	0.0015
11/23/2015 12:22	0.0923	0.0014
11/23/2015 12:21	0.0934	0.0013
11/23/2015 12:20	0.0941	0.0013
11/23/2015 12:19	0.0949	0.0013
11/23/2015 12:18	0.0953	0.0013
11/23/2015 12:17	0.0955	0.0011
11/23/2015 12:16	0.0957	0.0012
11/23/2015 12:15	0.0959	0.0013
11/23/2015 12:14	0.0958	0.0011
11/23/2015 12:13	0.0957	0.0011
11/23/2015 12:12	0.0963	0.0011
11/23/2015 12:11	0.0967	0.0011

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/23/2015 12:10	0.0969	0.0011
11/23/2015 12:09	0.0969	0.0011
11/23/2015 12:08	0.097	0.0011
11/23/2015 12:07	0.0965	0.0012
11/23/2015 12:06	0.0959	0.0017
11/23/2015 12:05	0.0953	0.0017
11/23/2015 12:04	0.0947	0.0017
11/23/2015 12:03	0.0946	0.0017
11/23/2015 12:02	0.0944	0.0017
11/23/2015 12:01	0.0941	0.0016
11/23/2015 12:00	0.0939	0.0016
11/23/2015 11:59	0.0937	0.0016
11/23/2015 11:58	0.0935	0.0015
11/23/2015 11:57	0.0929	0.0016
11/23/2015 11:56	0.0924	0.0017
11/23/2015 11:55	0.0919	0.0017
11/23/2015 11:54	0.092	0.0017
11/23/2015 11:53	0.0916	0.0018
11/23/2015 11:52	0.0917	0.0019
11/23/2015 11:51	0.0916	0.0015
11/23/2015 11:50	0.0918	0.0018
11/23/2015 11:49	0.0921	0.0019
11/23/2015 11:48	0.0922	0.0019
11/23/2015 11:47	0.0931	0.002
11/23/2015 11:46	0.0937	0.0021
11/23/2015 11:45	0.0943	0.0021
11/23/2015 11:44	0.0945	0.0021
11/23/2015 11:43	0.0951	0.0023
11/23/2015 11:42	0.0959	0.0023
11/23/2015 11:41	0.0965	0.0023
11/23/2015 11:40	0.0971	0.0023
11/23/2015 11:39	0.0976	0.0024
11/23/2015 11:38	0.0982	0.0025
11/23/2015 11:37	0.0987	0.0025
11/23/2015 11:36	0.0995	0.0025
11/23/2015 11:35	0.1002	0.0023
11/23/2015 11:34	0.1006	0.0025
11/23/2015 11:33	0.1011	0.0025
11/23/2015 11:32	0.1011	0.0025
11/23/2015 11:31	0.1016	0.0025
11/23/2015 11:30	0.1021	0.0025
11/23/2015 11:29	0.1027	0.0025
11/23/2015 11:28	0.1032	0.0025
11/23/2015 11:27	0.1037	0.0024

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/23/2015 11:26	0.1047	0.0023
11/23/2015 11:25	0.1059	0.0023
11/23/2015 11:24	0.1069	0.0023
11/23/2015 11:23	0.1081	0.0022
11/23/2015 11:22	0.109	0.0022
11/23/2015 11:21	0.1101	0.0022
11/23/2015 11:20	0.1111	0.0021
11/23/2015 11:19	0.1122	0.0018
11/23/2015 11:18	0.1136	0.0017
11/23/2015 11:17	0.1147	0.0017
11/23/2015 11:16	0.1158	0.0016
11/23/2015 11:15	0.1172	0.0015
11/23/2015 11:14	0.1188	0.0015
11/23/2015 11:13	0.1203	0.0014
11/23/2015 11:12	0.1221	0.0013
11/23/2015 11:11	0.1236	0.0013
11/23/2015 11:10	0.1247	0.0013
11/23/2015 11:09	0.1259	0.0012
11/23/2015 11:08	0.1275	0.0012
11/23/2015 11:07	0.1292	0.0011
11/23/2015 11:06	0.1308	0.0015
11/23/2015 11:05	0.1324	0.0015
11/23/2015 11:04	0.1342	0.0014
11/23/2015 11:03	0.1355	0.0014
11/23/2015 11:02	0.1373	0.0014
11/23/2015 11:01	0.1389	0.0015
11/23/2015 11:00	0.1403	0.0015
11/23/2015 10:59	0.1415	0.0015
11/23/2015 10:58	0.1428	0.0015
11/23/2015 10:57	0.1436	0.0015
11/23/2015 10:56	0.1446	0.0015
11/23/2015 10:55	0.1453	0.0017
11/23/2015 10:54	0.1461	0.0017
11/23/2015 10:53	0.1467	0.0017
11/23/2015 10:52	0.1474	0.0017
11/23/2015 10:51	0.1479	0.0014
11/23/2015 10:50	0.1485	0.0014
11/23/2015 10:49	0.1497	0.0015
11/23/2015 10:48	0.1507	0.0015
11/23/2015 10:47	0.1512	0.0015
11/23/2015 10:46	0.1518	0.0015
11/23/2015 10:45	0.1526	0.0015
11/23/2015 10:44	0.1533	0.0016
11/23/2015 10:43	0.1542	0.0017

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/23/2015 10:42	0.1553	0.0018
11/23/2015 10:41	0.1565	0.0019
11/23/2015 10:40	0.1581	0.0018
11/23/2015 10:39	0.1593	0.0019
11/23/2015 10:38	0.1605	0.0019
11/23/2015 10:37	0.1615	0.0021
11/23/2015 10:36	0.1625	0.0021
11/23/2015 10:35	0.1635	0.0021
11/23/2015 10:34	0.1635	0.0021
11/23/2015 10:33	0.1639	0.0022
11/23/2015 10:32	0.1644	0.0022
11/23/2015 10:31	0.165	0.0023
11/23/2015 10:30	0.1655	0.0023
11/23/2015 10:29	0.1662	0.0025
11/23/2015 10:28	0.1667	0.0026
11/23/2015 10:27	0.167	0.0026
11/23/2015 10:26	0.167	0.0026
11/23/2015 10:25	0.1663	0.0026
11/23/2015 10:24	0.1659	0.0025
11/23/2015 10:23	0.1655	0.0025
11/23/2015 10:22	0.1647	0.0025
11/23/2015 10:21	0.1643	0.0027
11/23/2015 10:20	0.1633	0.0028
11/23/2015 10:16	0.1626	0.0028
11/23/2015 10:15	0.1616	0.0029
11/23/2015 10:14	0.1617	0.0029
11/23/2015 10:13	0.1608	0.003
11/23/2015 10:12	0.1603	0.0031
11/23/2015 10:11	0.1597	0.0033
11/23/2015 10:10	0.1596	0.0035
11/23/2015 10:09	0.1593	0.0035
11/23/2015 10:08	0.1589	0.0037
11/23/2015 10:07	0.1585	0.0037
11/23/2015 10:06	0.1579	0.0038
11/23/2015 10:05	0.1578	0.0039
11/23/2015 10:04	0.1571	0.0041
11/23/2015 10:03	0.1562	0.0047
11/23/2015 10:02	0.1554	0.0047
11/23/2015 10:01	0.1551	0.0049
11/23/2015 10:00	0.1551	0.0049
11/23/2015 9:59	0.1539	0.0051
11/23/2015 9:58	0.1536	0.0053
11/23/2015 9:57	0.153	0.0055
11/23/2015 9:56	0.1525	0.0055

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/23/2015 9:55	0.1519	0.0056
11/23/2015 9:54	0.1513	0.0057
11/23/2015 9:53	0.1506	0.0059
11/23/2015 9:52	0.1502	0.006
11/23/2015 9:51	0.1496	0.006
11/23/2015 9:50	0.1491	0.0061
11/23/2015 9:49	0.1487	0.0061
11/23/2015 9:48	0.1481	0.0058
11/23/2015 9:47	0.1475	0.006
11/23/2015 9:46	0.1466	0.0061
11/23/2015 9:45	0.1456	0.0062
11/23/2015 9:44	0.1445	0.0062
11/23/2015 9:43	0.1435	0.0062
11/23/2015 9:42	0.1421	0.0063
11/23/2015 9:41	0.1409	0.0063
11/23/2015 9:40	0.1395	0.0065
11/23/2015 9:39	0.1381	0.0066
11/23/2015 9:38	0.1367	0.0066
11/23/2015 9:37	0.1351	0.0067
11/23/2015 9:36	0.1339	0.0069
11/23/2015 9:35	0.1325	0.0069
11/23/2015 9:34	0.1309	0.007
11/23/2015 9:33	0.1295	0.0071
11/23/2015 9:32	0.1281	0.0072
11/23/2015 9:31	0.1266	0.0073
11/23/2015 9:30	0.1252	0.0073
11/23/2015 9:29	0.1238	0.0075
11/23/2015 9:28	0.1224	0.0076
11/23/2015 9:27	0.1211	0.0076
11/23/2015 9:26	0.1197	0.0077
11/23/2015 9:25	0.1185	0.0077
11/23/2015 9:24	0.1172	0.0078
11/23/2015 9:23	0.1157	0.0079
11/23/2015 9:22	0.1147	0.008
11/23/2015 9:21	0.1132	0.0081
11/23/2015 9:20	0.1119	0.0081
11/23/2015 9:19	0.1107	0.0081
11/23/2015 9:18	0.1095	0.0082
11/23/2015 9:17	0.108	0.0082
11/23/2015 9:16	0.1065	0.0082
11/23/2015 9:15	0.1051	0.0083
11/23/2015 9:14	0.1036	0.0083
11/23/2015 9:13	0.102	0.0085
11/23/2015 9:12	0.1003	0.0084

Timestamp (GMT-5)	VOC (Avg15) (ppm)	Mass Conc. Total (Avg15) (mg/m ³)
11/23/2015 9:11	0.0987	0.0085
11/23/2015 9:10	0.097	0.0091
11/23/2015 9:09	0.0953	0.0091
11/23/2015 9:08	0.0937	0.0091
11/23/2015 9:07	0.0917	0.0092
11/23/2015 9:06	0.0895	0.0093
11/23/2015 9:05	0.0873	0.0095
11/23/2015 9:04	0.0851	0.0097
11/23/2015 9:03	0.0829	0.0098
11/23/2015 9:02	0.0807	0.0098
11/23/2015 9:01	0.0786	0.0099
11/23/2015 9:00	0.0763	0.0099
11/23/2015 8:59	0.074	0.01
11/23/2015 8:58	0.0716	0.0099
11/23/2015 8:57	0.0691	0.0101
11/23/2015 8:56	0.0663	0.0104
11/23/2015 8:55	0.0631	0.0101
11/23/2015 8:54	0.0597	0.0102
11/23/2015 8:53	0.0562	0.0103
11/23/2015 8:52	0.0525	0.0105
11/23/2015 8:51	0.0487	0.0106
11/23/2015 8:50	0.0451	0.0109
11/23/2015 8:49	0.0434	0.0109
11/23/2015 8:48	0.0415	0.011
11/23/2015 8:47	0.0396	0.0112
11/23/2015 8:46	0.0375	0.0114
11/23/2015 8:45	0.0354	0.0115
11/23/2015 8:44	0.0331	0.0117
11/23/2015 8:43	0.0306	0.0119
11/23/2015 8:42	0.028	0.012
11/23/2015 8:41	0.0253	0.0118
11/23/2015 8:40	0.0226	0.0118
11/23/2015 8:39	0.0205	0.012
11/23/2015 8:38	0.0183	0.0123
11/23/2015 8:37	0.0175	0.013
11/23/2015 8:36	0.018	0.014

APPENDIX C

Post-Removal Grid Sample Laboratory Report



ANALYTICAL REPORT

Lab Number:	L1531070
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623-4264
ATTN:	Benjamin Drayn
Phone:	(585) 321-4245
Project Name:	IRM SAMPLING
Project Number:	34201-313
Report Date:	12/01/15

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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



Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1531070-01	IRM2-GRID-101	SOIL	NEW YORK	11/24/15 15:22	11/24/15
L1531070-02	IRM2-GRID-102	SOIL	NEW YORK	11/24/15 15:26	11/24/15
L1531070-03	IRM2-GRID-103	SOIL	NEW YORK	11/24/15 15:29	11/24/15
L1531070-04	IRM2-GRID-104	SOIL	NEW YORK	11/24/15 15:31	11/24/15
L1531070-05	IRM2-GRID-105	SOIL	NEW YORK	11/24/15 15:32	11/24/15
L1531070-06	IRM2-GRID-106	SOIL	NEW YORK	11/24/15 15:34	11/24/15
L1531070-07	IRM2-GRID-107	SOIL	NEW YORK	11/24/15 15:36	11/24/15
L1531070-08	IRM2-GRID-108	SOIL	NEW YORK	11/24/15 15:37	11/24/15
L1531070-09	IRM2-GRID-109	SOIL	NEW YORK	11/24/15 15:41	11/24/15
L1531070-10	IRM2-GRID-110	SOIL	NEW YORK	11/24/15 15:43	11/24/15
L1531070-11	IRM2-GRID-111	SOIL	NEW YORK	11/24/15 15:44	11/24/15
L1531070-12	IRM2-GRID-112	SOIL	NEW YORK	11/24/15 15:46	11/24/15
L1531070-13	IRM2-GRID-113	SOIL	NEW YORK	11/24/15 15:55	11/24/15
L1531070-14	IRM2-GRID-114	SOIL	NEW YORK	11/24/15 15:57	11/24/15
L1531070-15	IRM2-GRID-115	SOIL	NEW YORK	11/24/15 16:02	11/24/15
L1531070-16	IRM2-GRID-116	SOIL	NEW YORK	11/24/15 16:04	11/24/15
L1531070-17	IRM2-GRID-117	SOIL	NEW YORK	11/24/15 16:05	11/24/15
L1531070-18	IRM2-GRID-118	SOIL	NEW YORK	11/24/15 16:07	11/24/15
L1531070-19	IRM2-GRID-119	SOIL	NEW YORK	11/24/15 16:10	11/24/15
L1531070-20	IRM2-GRID-120	SOIL	NEW YORK	11/24/15 16:12	11/24/15
L1531070-21	IRM2-GRID-121	SOIL	NEW YORK	11/24/15 16:18	11/24/15
L1531070-22	IRM2-GRID-122	SOIL	NEW YORK	11/24/15 16:20	11/24/15
L1531070-23	IRM2-GRID-123	SOIL	NEW YORK	11/24/15 16:22	11/24/15
L1531070-24	IRM2-GRID-124	SOIL	NEW YORK	11/24/15 16:24	11/24/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1531070-25	IRM2-GRID-125	SOIL	NEW YORK	11/24/15 16:28	11/24/15
L1531070-26	IRM2-GRID-126	SOIL	NEW YORK	11/24/15 16:30	11/24/15
L1531070-27	IRM2-GRID-127	SOIL	NEW YORK	11/24/15 16:32	11/24/15
L1531070-28	IRM2-GRID-128	SOIL	NEW YORK	11/24/15 16:35	11/24/15
L1531070-29	IRM2-GRID-129	SOIL	NEW YORK	11/24/15 16:37	11/24/15
L1531070-30	IRM2-GRID-130	SOIL	NEW YORK	11/24/15 16:40	11/24/15
L1531070-31	IRM2-GRID-131	SOIL	NEW YORK	11/24/15 16:44	11/24/15
L1531070-32	IRM2-GRID-132	SOIL	NEW YORK	11/24/15 16:55	11/24/15
L1531070-33	IRM2-GRID-133	SOIL	NEW YORK	11/24/15 16:57	11/24/15
L1531070-34	IRM2-GRID-134	SOIL	NEW YORK	11/24/15 17:00	11/24/15
L1531070-35	IRM2-GRID-135	SOIL	NEW YORK	11/24/15 17:04	11/24/15
L1531070-36	IRM2-GRID-136	SOIL	NEW YORK	11/24/15 17:08	11/24/15
L1531070-37	IRM2-GRID-137	SOIL	NEW YORK	11/24/15 17:10	11/24/15
L1531070-38	3179-112415-0002	SOIL	NEW YORK	11/24/15 00:00	11/24/15
L1531070-39	3179-112415-0003	SOIL	NEW YORK	11/24/15 00:00	11/24/15

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

Case Narrative

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

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

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

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

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

Case Narrative (continued)

Report Submission

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

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

Authorized Signature:



Kelly Stenstrom

Title: Technical Director/Representative

Date: 12/01/15

ORGANICS

PCBS

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-01
Client ID: IRM2-GRID-101
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 19:47
Analyst: JW
Percent Solids: 89%

Date Collected: 11/24/15 15:22
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:18
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	2.83	1	A
Aroclor 1221	ND		ug/kg	35.8	3.31	1	A
Aroclor 1232	ND		ug/kg	35.8	4.20	1	A
Aroclor 1242	ND		ug/kg	35.8	4.39	1	A
Aroclor 1248	ND		ug/kg	35.8	3.03	1	A
Aroclor 1254	ND		ug/kg	35.8	2.95	1	A
Aroclor 1260	ND		ug/kg	35.8	2.73	1	A
Aroclor 1262	ND		ug/kg	35.8	1.78	1	A
Aroclor 1268	ND		ug/kg	35.8	5.20	1	A
PCBs, Total	ND		ug/kg	35.8	1.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-02
Client ID: IRM2-GRID-102
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 20:00
Analyst: JW
Percent Solids: 85%

Date Collected: 11/24/15 15:26
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:18
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.3	2.95	1	A
Aroclor 1221	ND		ug/kg	37.3	3.44	1	A
Aroclor 1232	ND		ug/kg	37.3	4.37	1	A
Aroclor 1242	ND		ug/kg	37.3	4.57	1	A
Aroclor 1248	ND		ug/kg	37.3	3.15	1	A
Aroclor 1254	ND		ug/kg	37.3	3.07	1	A
Aroclor 1260	ND		ug/kg	37.3	2.84	1	A
Aroclor 1262	ND		ug/kg	37.3	1.85	1	A
Aroclor 1268	ND		ug/kg	37.3	5.41	1	A
PCBs, Total	ND		ug/kg	37.3	1.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-03
Client ID: IRM2-GRID-103
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 20:14
Analyst: JW
Percent Solids: 90%

Date Collected: 11/24/15 15:29
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:18
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	2.78	1	A
Aroclor 1221	ND		ug/kg	35.2	3.24	1	A
Aroclor 1232	ND		ug/kg	35.2	4.12	1	A
Aroclor 1242	ND		ug/kg	35.2	4.31	1	A
Aroclor 1248	ND		ug/kg	35.2	2.97	1	A
Aroclor 1254	ND		ug/kg	35.2	2.89	1	A
Aroclor 1260	ND		ug/kg	35.2	2.68	1	A
Aroclor 1262	ND		ug/kg	35.2	1.74	1	A
Aroclor 1268	ND		ug/kg	35.2	5.10	1	A
PCBs, Total	ND		ug/kg	35.2	1.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	132		30-150	A
Decachlorobiphenyl	125		30-150	A
2,4,5,6-Tetrachloro-m-xylene	136		30-150	B
Decachlorobiphenyl	122		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-04
Client ID: IRM2-GRID-104
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 20:27
Analyst: JW
Percent Solids: 91%

Date Collected: 11/24/15 15:31
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:18
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.8	2.75	1	A
Aroclor 1221	ND		ug/kg	34.8	3.21	1	A
Aroclor 1232	ND		ug/kg	34.8	4.08	1	A
Aroclor 1242	ND		ug/kg	34.8	4.26	1	A
Aroclor 1248	18.7	J	ug/kg	34.8	2.94	1	B
Aroclor 1254	ND		ug/kg	34.8	2.86	1	A
Aroclor 1260	ND		ug/kg	34.8	2.65	1	A
Aroclor 1262	ND		ug/kg	34.8	1.73	1	A
Aroclor 1268	ND		ug/kg	34.8	5.05	1	A
PCBs, Total	18.7	J	ug/kg	34.8	1.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-05
Client ID: IRM2-GRID-105
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 20:40
Analyst: JW
Percent Solids: 89%

Date Collected: 11/24/15 15:32
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:18
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.5	2.80	1	A
Aroclor 1221	ND		ug/kg	35.5	3.27	1	A
Aroclor 1232	ND		ug/kg	35.5	4.16	1	A
Aroclor 1242	ND		ug/kg	35.5	4.34	1	A
Aroclor 1248	ND		ug/kg	35.5	2.99	1	A
Aroclor 1254	ND		ug/kg	35.5	2.92	1	A
Aroclor 1260	ND		ug/kg	35.5	2.70	1	A
Aroclor 1262	ND		ug/kg	35.5	1.76	1	A
Aroclor 1268	ND		ug/kg	35.5	5.14	1	A
PCBs, Total	ND		ug/kg	35.5	1.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-06
Client ID: IRM2-GRID-106
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 20:54
Analyst: JW
Percent Solids: 88%

Date Collected: 11/24/15 15:34
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:18
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	2.88	1	A
Aroclor 1221	ND		ug/kg	36.4	3.36	1	A
Aroclor 1232	ND		ug/kg	36.4	4.26	1	A
Aroclor 1242	ND		ug/kg	36.4	4.46	1	A
Aroclor 1248	ND		ug/kg	36.4	3.07	1	A
Aroclor 1254	ND		ug/kg	36.4	2.99	1	A
Aroclor 1260	ND		ug/kg	36.4	2.77	1	A
Aroclor 1262	ND		ug/kg	36.4	1.80	1	A
Aroclor 1268	ND		ug/kg	36.4	5.28	1	A
PCBs, Total	ND		ug/kg	36.4	1.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-07
Client ID: IRM2-GRID-107
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 21:07
Analyst: JW
Percent Solids: 89%

Date Collected: 11/24/15 15:36
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:18
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.5	2.80	1	A
Aroclor 1221	ND		ug/kg	35.5	3.27	1	A
Aroclor 1232	ND		ug/kg	35.5	4.16	1	A
Aroclor 1242	ND		ug/kg	35.5	4.34	1	A
Aroclor 1248	ND		ug/kg	35.5	2.99	1	A
Aroclor 1254	10.4	J	ug/kg	35.5	2.92	1	B
Aroclor 1260	ND		ug/kg	35.5	2.70	1	A
Aroclor 1262	ND		ug/kg	35.5	1.76	1	A
Aroclor 1268	ND		ug/kg	35.5	5.14	1	A
PCBs, Total	10.4	J	ug/kg	35.5	1.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-08
Client ID: IRM2-GRID-108
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 21:20
Analyst: JW
Percent Solids: 89%

Date Collected: 11/24/15 15:37
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:18
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.6	2.81	1	A
Aroclor 1221	ND		ug/kg	35.6	3.28	1	A
Aroclor 1232	ND		ug/kg	35.6	4.18	1	A
Aroclor 1242	ND		ug/kg	35.6	4.36	1	A
Aroclor 1248	ND		ug/kg	35.6	3.01	1	A
Aroclor 1254	ND		ug/kg	35.6	2.93	1	A
Aroclor 1260	ND		ug/kg	35.6	2.72	1	A
Aroclor 1262	ND		ug/kg	35.6	1.77	1	A
Aroclor 1268	ND		ug/kg	35.6	5.17	1	A
PCBs, Total	ND		ug/kg	35.6	1.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-09
Client ID: IRM2-GRID-109
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 21:34
Analyst: JW
Percent Solids: 88%

Date Collected: 11/24/15 15:41
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:18
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	2.86	1	A
Aroclor 1221	ND		ug/kg	36.2	3.34	1	A
Aroclor 1232	ND		ug/kg	36.2	4.24	1	A
Aroclor 1242	ND		ug/kg	36.2	4.43	1	A
Aroclor 1248	ND		ug/kg	36.2	3.06	1	A
Aroclor 1254	ND		ug/kg	36.2	2.98	1	A
Aroclor 1260	ND		ug/kg	36.2	2.76	1	A
Aroclor 1262	ND		ug/kg	36.2	1.80	1	A
Aroclor 1268	ND		ug/kg	36.2	5.25	1	A
PCBs, Total	ND		ug/kg	36.2	1.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-10
Client ID: IRM2-GRID-110
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 21:47
Analyst: JW
Percent Solids: 91%

Date Collected: 11/24/15 15:43
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:18
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.6	2.74	1	A
Aroclor 1221	ND		ug/kg	34.6	3.19	1	A
Aroclor 1232	ND		ug/kg	34.6	4.06	1	A
Aroclor 1242	ND		ug/kg	34.6	4.24	1	A
Aroclor 1248	ND		ug/kg	34.6	2.92	1	A
Aroclor 1254	ND		ug/kg	34.6	2.85	1	A
Aroclor 1260	ND		ug/kg	34.6	2.64	1	A
Aroclor 1262	ND		ug/kg	34.6	1.72	1	A
Aroclor 1268	ND		ug/kg	34.6	5.02	1	A
PCBs, Total	ND		ug/kg	34.6	1.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-11
Client ID: IRM2-GRID-111
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 22:00
Analyst: JW
Percent Solids: 87%

Date Collected: 11/24/15 15:44
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:19
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	2.86	1	A
Aroclor 1221	ND		ug/kg	36.2	3.34	1	A
Aroclor 1232	ND		ug/kg	36.2	4.24	1	A
Aroclor 1242	ND		ug/kg	36.2	4.43	1	A
Aroclor 1248	ND		ug/kg	36.2	3.05	1	A
Aroclor 1254	9.22	J	ug/kg	36.2	2.97	1	A
Aroclor 1260	ND		ug/kg	36.2	2.76	1	A
Aroclor 1262	ND		ug/kg	36.2	1.80	1	A
Aroclor 1268	ND		ug/kg	36.2	5.25	1	A
PCBs, Total	9.22	J	ug/kg	36.2	1.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-12
Client ID: IRM2-GRID-112
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 22:14
Analyst: JW
Percent Solids: 87%

Date Collected: 11/24/15 15:46
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:19
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	2.84	1	A
Aroclor 1221	ND		ug/kg	36.0	3.32	1	A
Aroclor 1232	ND		ug/kg	36.0	4.22	1	A
Aroclor 1242	75.0		ug/kg	36.0	4.40	1	B
Aroclor 1248	ND		ug/kg	36.0	3.04	1	A
Aroclor 1254	ND		ug/kg	36.0	2.96	1	A
Aroclor 1260	ND		ug/kg	36.0	2.74	1	A
Aroclor 1262	ND		ug/kg	36.0	1.78	1	A
Aroclor 1268	ND		ug/kg	36.0	5.22	1	A
PCBs, Total	75.0		ug/kg	36.0	1.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-13
Client ID: IRM2-GRID-113
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 22:27
Analyst: JW
Percent Solids: 91%

Date Collected: 11/24/15 15:55
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:19
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.5	2.72	1	A
Aroclor 1221	ND		ug/kg	34.5	3.18	1	A
Aroclor 1232	ND		ug/kg	34.5	4.04	1	A
Aroclor 1242	ND		ug/kg	34.5	4.22	1	A
Aroclor 1248	ND		ug/kg	34.5	2.91	1	A
Aroclor 1254	ND		ug/kg	34.5	2.84	1	A
Aroclor 1260	ND		ug/kg	34.5	2.63	1	A
Aroclor 1262	ND		ug/kg	34.5	1.71	1	A
Aroclor 1268	ND		ug/kg	34.5	5.00	1	A
PCBs, Total	ND		ug/kg	34.5	1.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-14
Client ID: IRM2-GRID-114
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 22:40
Analyst: JW
Percent Solids: 88%

Date Collected: 11/24/15 15:57
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:19
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	2.85	1	A
Aroclor 1221	ND		ug/kg	36.0	3.32	1	A
Aroclor 1232	ND		ug/kg	36.0	4.22	1	A
Aroclor 1242	ND		ug/kg	36.0	4.41	1	A
Aroclor 1248	ND		ug/kg	36.0	3.04	1	A
Aroclor 1254	ND		ug/kg	36.0	2.96	1	A
Aroclor 1260	ND		ug/kg	36.0	2.75	1	A
Aroclor 1262	ND		ug/kg	36.0	1.79	1	A
Aroclor 1268	ND		ug/kg	36.0	5.23	1	A
PCBs, Total	ND		ug/kg	36.0	1.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-15
Client ID: IRM2-GRID-115
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 22:54
Analyst: JW
Percent Solids: 88%

Date Collected: 11/24/15 16:02
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:19
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	2.80	1	A
Aroclor 1221	ND		ug/kg	35.4	3.26	1	A
Aroclor 1232	ND		ug/kg	35.4	4.15	1	A
Aroclor 1242	ND		ug/kg	35.4	4.33	1	A
Aroclor 1248	ND		ug/kg	35.4	2.99	1	A
Aroclor 1254	24.9	J	ug/kg	35.4	2.91	1	A
Aroclor 1260	10.9	J	ug/kg	35.4	2.70	1	B
Aroclor 1262	ND		ug/kg	35.4	1.76	1	A
Aroclor 1268	ND		ug/kg	35.4	5.13	1	A
PCBs, Total	35.8	J	ug/kg	35.4	1.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-16
Client ID: IRM2-GRID-116
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/29/15 00:27
Analyst: JW
Percent Solids: 91%

Date Collected: 11/24/15 16:04
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:19
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.1	2.77	1	A
Aroclor 1221	ND		ug/kg	35.1	3.23	1	A
Aroclor 1232	ND		ug/kg	35.1	4.11	1	A
Aroclor 1242	ND		ug/kg	35.1	4.29	1	A
Aroclor 1248	ND		ug/kg	35.1	2.96	1	A
Aroclor 1254	ND		ug/kg	35.1	2.88	1	A
Aroclor 1260	ND		ug/kg	35.1	2.67	1	A
Aroclor 1262	ND		ug/kg	35.1	1.74	1	A
Aroclor 1268	ND		ug/kg	35.1	5.08	1	A
PCBs, Total	ND		ug/kg	35.1	1.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-17
Client ID: IRM2-GRID-117
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/29/15 00:40
Analyst: JW
Percent Solids: 90%

Date Collected: 11/24/15 16:05
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:19
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.0	2.76	1	A
Aroclor 1221	ND		ug/kg	35.0	3.22	1	A
Aroclor 1232	ND		ug/kg	35.0	4.10	1	A
Aroclor 1242	ND		ug/kg	35.0	4.28	1	A
Aroclor 1248	ND		ug/kg	35.0	2.95	1	A
Aroclor 1254	ND		ug/kg	35.0	2.88	1	A
Aroclor 1260	ND		ug/kg	35.0	2.66	1	A
Aroclor 1262	ND		ug/kg	35.0	1.74	1	A
Aroclor 1268	ND		ug/kg	35.0	5.07	1	A
PCBs, Total	ND		ug/kg	35.0	1.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-18
Client ID: IRM2-GRID-118
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/29/15 00:54
Analyst: JW
Percent Solids: 90%

Date Collected: 11/24/15 16:07
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:19
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.3	2.79	1	A
Aroclor 1221	ND		ug/kg	35.3	3.25	1	A
Aroclor 1232	ND		ug/kg	35.3	4.14	1	A
Aroclor 1242	ND		ug/kg	35.3	4.32	1	A
Aroclor 1248	ND		ug/kg	35.3	2.98	1	A
Aroclor 1254	ND		ug/kg	35.3	2.90	1	A
Aroclor 1260	ND		ug/kg	35.3	2.69	1	A
Aroclor 1262	ND		ug/kg	35.3	1.75	1	A
Aroclor 1268	ND		ug/kg	35.3	5.12	1	A
PCBs, Total	ND		ug/kg	35.3	1.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-19
Client ID: IRM2-GRID-119
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/29/15 01:07
Analyst: JW
Percent Solids: 86%

Date Collected: 11/24/15 16:10
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:19
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.9	2.92	1	A
Aroclor 1221	ND		ug/kg	36.9	3.40	1	A
Aroclor 1232	ND		ug/kg	36.9	4.32	1	A
Aroclor 1242	ND		ug/kg	36.9	4.52	1	A
Aroclor 1248	ND		ug/kg	36.9	3.11	1	A
Aroclor 1254	12.2	J	ug/kg	36.9	3.03	1	A
Aroclor 1260	ND		ug/kg	36.9	2.81	1	A
Aroclor 1262	ND		ug/kg	36.9	1.83	1	A
Aroclor 1268	ND		ug/kg	36.9	5.35	1	A
PCBs, Total	12.2	J	ug/kg	36.9	1.83	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-20
Client ID: IRM2-GRID-120
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/29/15 01:21
Analyst: JW
Percent Solids: 89%

Date Collected: 11/24/15 16:12
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:19
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	2.83	1	A
Aroclor 1221	ND		ug/kg	35.8	3.30	1	A
Aroclor 1232	ND		ug/kg	35.8	4.20	1	A
Aroclor 1242	ND		ug/kg	35.8	4.38	1	A
Aroclor 1248	ND		ug/kg	35.8	3.02	1	A
Aroclor 1254	12.8	J	ug/kg	35.8	2.94	1	A
Aroclor 1260	ND		ug/kg	35.8	2.73	1	A
Aroclor 1262	ND		ug/kg	35.8	1.78	1	A
Aroclor 1268	ND		ug/kg	35.8	5.19	1	A
PCBs, Total	12.8	J	ug/kg	35.8	1.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-21
Client ID: IRM2-GRID-121
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 20:16
Analyst: JW
Percent Solids: 86%

Date Collected: 11/24/15 16:18
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	2.92	1	A
Aroclor 1221	ND		ug/kg	37.0	3.41	1	A
Aroclor 1232	ND		ug/kg	37.0	4.34	1	A
Aroclor 1242	ND		ug/kg	37.0	4.53	1	A
Aroclor 1248	ND		ug/kg	37.0	3.12	1	A
Aroclor 1254	20.3	J	ug/kg	37.0	3.04	1	B
Aroclor 1260	ND		ug/kg	37.0	2.82	1	A
Aroclor 1262	ND		ug/kg	37.0	1.84	1	A
Aroclor 1268	ND		ug/kg	37.0	5.37	1	A
PCBs, Total	20.3	J	ug/kg	37.0	1.84	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-22
Client ID: IRM2-GRID-122
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 20:32
Analyst: JW
Percent Solids: 90%

Date Collected: 11/24/15 16:20
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	2.78	1	A
Aroclor 1221	ND		ug/kg	35.2	3.24	1	A
Aroclor 1232	ND		ug/kg	35.2	4.12	1	A
Aroclor 1242	ND		ug/kg	35.2	4.31	1	A
Aroclor 1248	ND		ug/kg	35.2	2.97	1	A
Aroclor 1254	15.0	J	ug/kg	35.2	2.89	1	B
Aroclor 1260	ND		ug/kg	35.2	2.68	1	A
Aroclor 1262	ND		ug/kg	35.2	1.74	1	A
Aroclor 1268	ND		ug/kg	35.2	5.10	1	A
PCBs, Total	15.0	J	ug/kg	35.2	1.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-23
Client ID: IRM2-GRID-123
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 20:48
Analyst: JW
Percent Solids: 89%

Date Collected: 11/24/15 16:22
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	2.79	1	A
Aroclor 1221	ND		ug/kg	35.4	3.26	1	A
Aroclor 1232	ND		ug/kg	35.4	4.14	1	A
Aroclor 1242	ND		ug/kg	35.4	4.33	1	A
Aroclor 1248	ND		ug/kg	35.4	2.98	1	A
Aroclor 1254	15.2	J	ug/kg	35.4	2.91	1	B
Aroclor 1260	ND		ug/kg	35.4	2.69	1	A
Aroclor 1262	ND		ug/kg	35.4	1.75	1	A
Aroclor 1268	29.8	J	ug/kg	35.4	5.13	1	B
PCBs, Total	45.0	J	ug/kg	35.4	1.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-24
Client ID: IRM2-GRID-124
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 21:05
Analyst: JW
Percent Solids: 88%

Date Collected: 11/24/15 16:24
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	2.86	1	A
Aroclor 1221	ND		ug/kg	36.1	3.33	1	A
Aroclor 1232	ND		ug/kg	36.1	4.24	1	A
Aroclor 1242	ND		ug/kg	36.1	4.42	1	A
Aroclor 1248	ND		ug/kg	36.1	3.05	1	A
Aroclor 1254	18.3	J	ug/kg	36.1	2.97	1	B
Aroclor 1260	ND		ug/kg	36.1	2.75	1	A
Aroclor 1262	ND		ug/kg	36.1	1.79	1	A
Aroclor 1268	ND		ug/kg	36.1	5.24	1	A
PCBs, Total	18.3	J	ug/kg	36.1	1.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-25
Client ID: IRM2-GRID-125
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 21:21
Analyst: JW
Percent Solids: 87%

Date Collected: 11/24/15 16:28
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	2.88	1	A
Aroclor 1221	ND		ug/kg	36.4	3.36	1	A
Aroclor 1232	ND		ug/kg	36.4	4.27	1	A
Aroclor 1242	ND		ug/kg	36.4	4.46	1	A
Aroclor 1248	ND		ug/kg	36.4	3.07	1	A
Aroclor 1254	ND		ug/kg	36.4	2.99	1	A
Aroclor 1260	ND		ug/kg	36.4	2.78	1	A
Aroclor 1262	ND		ug/kg	36.4	1.81	1	A
Aroclor 1268	ND		ug/kg	36.4	5.28	1	A
PCBs, Total	ND		ug/kg	36.4	1.81	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	109		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-26
Client ID: IRM2-GRID-126
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 21:37
Analyst: JW
Percent Solids: 89%

Date Collected: 11/24/15 16:30
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	2.85	1	A
Aroclor 1221	ND		ug/kg	36.0	3.32	1	A
Aroclor 1232	ND		ug/kg	36.0	4.22	1	A
Aroclor 1242	ND		ug/kg	36.0	4.41	1	A
Aroclor 1248	ND		ug/kg	36.0	3.04	1	A
Aroclor 1254	ND		ug/kg	36.0	2.96	1	A
Aroclor 1260	ND		ug/kg	36.0	2.74	1	A
Aroclor 1262	ND		ug/kg	36.0	1.79	1	A
Aroclor 1268	ND		ug/kg	36.0	5.22	1	A
PCBs, Total	ND		ug/kg	36.0	1.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		30-150	B
Decachlorobiphenyl	98		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-27
Client ID: IRM2-GRID-127
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 21:53
Analyst: JW
Percent Solids: 87%

Date Collected: 11/24/15 16:32
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	2.90	1	A
Aroclor 1221	ND		ug/kg	36.7	3.38	1	A
Aroclor 1232	ND		ug/kg	36.7	4.30	1	A
Aroclor 1242	ND		ug/kg	36.7	4.49	1	A
Aroclor 1248	ND		ug/kg	36.7	3.10	1	A
Aroclor 1254	80.2		ug/kg	36.7	3.02	1	B
Aroclor 1260	ND		ug/kg	36.7	2.80	1	A
Aroclor 1262	ND		ug/kg	36.7	1.82	1	A
Aroclor 1268	ND		ug/kg	36.7	5.32	1	A
PCBs, Total	80.2		ug/kg	36.7	1.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-28
Client ID: IRM2-GRID-128
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 22:10
Analyst: JW
Percent Solids: 89%

Date Collected: 11/24/15 16:35
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	2.83	1	A
Aroclor 1221	ND		ug/kg	35.8	3.30	1	A
Aroclor 1232	ND		ug/kg	35.8	4.20	1	A
Aroclor 1242	ND		ug/kg	35.8	4.39	1	A
Aroclor 1248	ND		ug/kg	35.8	3.02	1	A
Aroclor 1254	122		ug/kg	35.8	2.95	1	B
Aroclor 1260	33.3	J	ug/kg	35.8	2.73	1	B
Aroclor 1262	ND		ug/kg	35.8	1.78	1	A
Aroclor 1268	ND		ug/kg	35.8	5.20	1	A
PCBs, Total	155	J	ug/kg	35.8	1.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-29
Client ID: IRM2-GRID-129
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 22:26
Analyst: JW
Percent Solids: 91%

Date Collected: 11/24/15 16:37
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.8	2.74	1	A
Aroclor 1221	ND		ug/kg	34.8	3.20	1	A
Aroclor 1232	ND		ug/kg	34.8	4.07	1	A
Aroclor 1242	ND		ug/kg	34.8	4.25	1	A
Aroclor 1248	ND		ug/kg	34.8	2.93	1	A
Aroclor 1254	14.5	J	ug/kg	34.8	2.86	1	B
Aroclor 1260	ND		ug/kg	34.8	2.65	1	A
Aroclor 1262	ND		ug/kg	34.8	1.72	1	A
Aroclor 1268	ND		ug/kg	34.8	5.04	1	A
PCBs, Total	14.5	J	ug/kg	34.8	1.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-30
Client ID: IRM2-GRID-130
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 22:43
Analyst: JW
Percent Solids: 87%

Date Collected: 11/24/15 16:40
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	2.94	1	A
Aroclor 1221	ND		ug/kg	37.2	3.43	1	A
Aroclor 1232	ND		ug/kg	37.2	4.36	1	A
Aroclor 1242	ND		ug/kg	37.2	4.56	1	A
Aroclor 1248	ND		ug/kg	37.2	3.14	1	A
Aroclor 1254	41.2		ug/kg	37.2	3.06	1	B
Aroclor 1260	19.6	J	ug/kg	37.2	2.84	1	B
Aroclor 1262	ND		ug/kg	37.2	1.85	1	A
Aroclor 1268	ND		ug/kg	37.2	5.40	1	A
PCBs, Total	60.8	J	ug/kg	37.2	1.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-31
Client ID: IRM2-GRID-131
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 22:59
Analyst: JW
Percent Solids: 84%

Date Collected: 11/24/15 16:44
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	2.96	1	A
Aroclor 1221	ND		ug/kg	37.4	3.45	1	A
Aroclor 1232	ND		ug/kg	37.4	4.38	1	A
Aroclor 1242	ND		ug/kg	37.4	4.58	1	A
Aroclor 1248	ND		ug/kg	37.4	3.16	1	A
Aroclor 1254	ND		ug/kg	37.4	3.08	1	A
Aroclor 1260	ND		ug/kg	37.4	2.85	1	A
Aroclor 1262	ND		ug/kg	37.4	1.86	1	A
Aroclor 1268	ND		ug/kg	37.4	5.42	1	A
PCBs, Total	ND		ug/kg	37.4	1.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: IRM SAMPLING**Lab Number:** L1531070**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531070-32
Client ID: IRM2-GRID-132
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 23:16
Analyst: JW
Percent Solids: 89%

Date Collected: 11/24/15 16:55
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.5	2.89	1	A
Aroclor 1221	ND		ug/kg	36.5	3.37	1	A
Aroclor 1232	ND		ug/kg	36.5	4.28	1	A
Aroclor 1242	ND		ug/kg	36.5	4.47	1	A
Aroclor 1248	ND		ug/kg	36.5	3.08	1	A
Aroclor 1254	15.1	J	ug/kg	36.5	3.00	1	B
Aroclor 1260	ND		ug/kg	36.5	2.78	1	A
Aroclor 1262	ND		ug/kg	36.5	1.81	1	A
Aroclor 1268	ND		ug/kg	36.5	5.30	1	A
PCBs, Total	15.1	J	ug/kg	36.5	1.81	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	112		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-33
Client ID: IRM2-GRID-133
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 23:32
Analyst: JW
Percent Solids: 94%

Date Collected: 11/24/15 16:57
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.4	2.64	1	A
Aroclor 1221	ND		ug/kg	33.4	3.08	1	A
Aroclor 1232	ND		ug/kg	33.4	3.92	1	A
Aroclor 1242	ND		ug/kg	33.4	4.09	1	A
Aroclor 1248	ND		ug/kg	33.4	2.82	1	A
Aroclor 1254	ND		ug/kg	33.4	2.75	1	A
Aroclor 1260	ND		ug/kg	33.4	2.55	1	A
Aroclor 1262	ND		ug/kg	33.4	1.66	1	A
Aroclor 1268	ND		ug/kg	33.4	4.85	1	A
PCBs, Total	ND		ug/kg	33.4	1.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	111		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-34
Client ID: IRM2-GRID-134
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 23:48
Analyst: JW
Percent Solids: 92%

Date Collected: 11/24/15 17:00
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	2.70	1	A
Aroclor 1221	ND		ug/kg	34.1	3.15	1	A
Aroclor 1232	ND		ug/kg	34.1	4.00	1	A
Aroclor 1242	ND		ug/kg	34.1	4.18	1	A
Aroclor 1248	ND		ug/kg	34.1	2.88	1	A
Aroclor 1254	ND		ug/kg	34.1	2.81	1	A
Aroclor 1260	ND		ug/kg	34.1	2.60	1	A
Aroclor 1262	ND		ug/kg	34.1	1.69	1	A
Aroclor 1268	ND		ug/kg	34.1	4.95	1	A
PCBs, Total	ND		ug/kg	34.1	1.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	109		30-150	B
Decachlorobiphenyl	104		30-150	B

Project Name: IRM SAMPLING**Lab Number:** L1531070**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531070-35
Client ID: IRM2-GRID-135
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/29/15 00:05
Analyst: JW
Percent Solids: 90%

Date Collected: 11/24/15 17:04
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.9	2.76	1	A
Aroclor 1221	ND		ug/kg	34.9	3.22	1	A
Aroclor 1232	ND		ug/kg	34.9	4.09	1	A
Aroclor 1242	ND		ug/kg	34.9	4.27	1	A
Aroclor 1248	ND		ug/kg	34.9	2.94	1	A
Aroclor 1254	ND		ug/kg	34.9	2.87	1	A
Aroclor 1260	ND		ug/kg	34.9	2.66	1	A
Aroclor 1262	ND		ug/kg	34.9	1.73	1	A
Aroclor 1268	ND		ug/kg	34.9	5.06	1	A
PCBs, Total	ND		ug/kg	34.9	1.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	112		30-150	A
Decachlorobiphenyl	119		30-150	A
2,4,5,6-Tetrachloro-m-xylene	118		30-150	B
Decachlorobiphenyl	115		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-36
Client ID: IRM2-GRID-136
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/29/15 22:19
Analyst: JT
Percent Solids: 89%

Date Collected: 11/24/15 17:08
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	2.85	1	A
Aroclor 1221	ND		ug/kg	36.1	3.33	1	A
Aroclor 1232	ND		ug/kg	36.1	4.23	1	A
Aroclor 1242	ND		ug/kg	36.1	4.42	1	A
Aroclor 1248	ND		ug/kg	36.1	3.05	1	A
Aroclor 1254	14.9	J	ug/kg	36.1	2.97	1	B
Aroclor 1260	ND		ug/kg	36.1	2.75	1	A
Aroclor 1262	ND		ug/kg	36.1	1.79	1	A
Aroclor 1268	ND		ug/kg	36.1	5.24	1	A
PCBs, Total	14.9	J	ug/kg	36.1	1.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	120		30-150	A
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	133		30-150	B

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-37
Client ID: IRM2-GRID-137
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/29/15 22:35
Analyst: JT
Percent Solids: 89%

Date Collected: 11/24/15 17:10
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	2.82	1	A
Aroclor 1221	ND		ug/kg	35.7	3.30	1	A
Aroclor 1232	ND		ug/kg	35.7	4.19	1	A
Aroclor 1242	ND		ug/kg	35.7	4.37	1	A
Aroclor 1248	ND		ug/kg	35.7	3.02	1	A
Aroclor 1254	ND		ug/kg	35.7	2.94	1	A
Aroclor 1260	ND		ug/kg	35.7	2.72	1	A
Aroclor 1262	ND		ug/kg	35.7	1.77	1	A
Aroclor 1268	ND		ug/kg	35.7	5.18	1	A
PCBs, Total	ND		ug/kg	35.7	1.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	115		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	117		30-150	B

Project Name: IRM SAMPLING**Lab Number:** L1531070**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531070-38
Client ID: 3179-112415-0002
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/29/15 22:52
Analyst: JT
Percent Solids: 90%

Date Collected: 11/24/15 00:00
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.6	2.81	1	A
Aroclor 1221	ND		ug/kg	35.6	3.28	1	A
Aroclor 1232	ND		ug/kg	35.6	4.17	1	A
Aroclor 1242	ND		ug/kg	35.6	4.36	1	A
Aroclor 1248	ND		ug/kg	35.6	3.00	1	A
Aroclor 1254	22.6	J	ug/kg	35.6	2.93	1	B
Aroclor 1260	ND		ug/kg	35.6	2.71	1	A
Aroclor 1262	ND		ug/kg	35.6	1.77	1	A
Aroclor 1268	ND		ug/kg	35.6	5.16	1	A
PCBs, Total	22.6	J	ug/kg	35.6	1.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	110		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: IRM SAMPLING**Lab Number:** L1531070**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531070-39
Client ID: 3179-112415-0003
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/29/15 23:08
Analyst: JT
Percent Solids: 90%

Date Collected: 11/24/15 00:00
Date Received: 11/24/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:21
Cleanup Method: EPA 3665A
Cleanup Date: 11/28/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	2.80	1	A
Aroclor 1221	ND		ug/kg	35.4	3.26	1	A
Aroclor 1232	ND		ug/kg	35.4	4.15	1	A
Aroclor 1242	50.4		ug/kg	35.4	4.33	1	B
Aroclor 1248	ND		ug/kg	35.4	2.99	1	A
Aroclor 1254	ND		ug/kg	35.4	2.91	1	A
Aroclor 1260	ND		ug/kg	35.4	2.70	1	A
Aroclor 1262	ND		ug/kg	35.4	1.75	1	A
Aroclor 1268	ND		ug/kg	35.4	5.13	1	A
PCBs, Total	50.4		ug/kg	35.4	1.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	118		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	120		30-150	B

Project Name: IRM SAMPLING

Lab Number: L1531070

Project Number: 34201-313

Report Date: 12/01/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 11/28/15 23:34
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 11/27/15 13:18
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/28/15
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-20 Batch: WG844677-1						
Aroclor 1016	ND		ug/kg	31.4	2.48	A
Aroclor 1221	ND		ug/kg	31.4	2.89	A
Aroclor 1232	ND		ug/kg	31.4	3.68	A
Aroclor 1242	ND		ug/kg	31.4	3.84	A
Aroclor 1248	ND		ug/kg	31.4	2.65	A
Aroclor 1254	ND		ug/kg	31.4	2.58	A
Aroclor 1260	ND		ug/kg	31.4	2.39	A
Aroclor 1262	ND		ug/kg	31.4	1.56	A
Aroclor 1268	ND		ug/kg	31.4	4.55	A
PCBs, Total	ND		ug/kg	31.4	1.56	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: IRM SAMPLING

Lab Number: L1531070

Project Number: 34201-313

Report Date: 12/01/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 11/28/15 18:54
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 11/27/15 13:21
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/28/15
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 21-39 Batch: WG844679-1						
Aroclor 1016	ND		ug/kg	31.7	2.51	A
Aroclor 1221	ND		ug/kg	31.7	2.93	A
Aroclor 1232	ND		ug/kg	31.7	3.72	A
Aroclor 1242	ND		ug/kg	31.7	3.88	A
Aroclor 1248	ND		ug/kg	31.7	2.68	A
Aroclor 1254	ND		ug/kg	31.7	2.61	A
Aroclor 1260	ND		ug/kg	31.7	2.42	A
Aroclor 1262	ND		ug/kg	31.7	1.57	A
Aroclor 1268	ND		ug/kg	31.7	4.60	A
PCBs, Total	ND		ug/kg	31.7	1.57	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	121		30-150	B
Decachlorobiphenyl	104		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531070

Report Date: 12/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG844677-4 WG844677-5 QC Sample: L1531070-10 Client ID:													
IRM2-GRID-110													
Aroclor 1016	ND	219	159	73		130	59		40-140	20		50	A
Aroclor 1260	ND	219	153	70		130	59		40-140	16		50	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	82		68		30-150	A
Decachlorobiphenyl	82		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		66		30-150	B
Decachlorobiphenyl	75		64		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>	<i>Column</i>
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 21-39 QC Batch ID: WG844679-4 WG844679-5 QC Sample: L1531070-30 Client ID:													
Aroclor 1016	ND	228	160	70		148	65		40-140	8		50	A
Aroclor 1260	19.6J	228	228	100		227	100		40-140	0		50	B

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	81		85		30-150	A
Decachlorobiphenyl	77		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		85		30-150	B
Decachlorobiphenyl	82		99		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531070

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-20 Batch: WG844677-2 WG844677-3									
Aroclor 1016	77		74		40-140	4		50	A
Aroclor 1260	72		71		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		85		30-150	A
Decachlorobiphenyl	81		84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		85		30-150	B
Decachlorobiphenyl	77		80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531070

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 21-39 Batch: WG844679-2 WG844679-3									
Aroclor 1016	78		111		40-140	35		50	A
Aroclor 1260	67		104		40-140	43		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		138		30-150	A
Decachlorobiphenyl	86		110		30-150	A
2,4,5,6-Tetrachloro-m-xylene	114		143		30-150	B
Decachlorobiphenyl	100		123		30-150	B

INORGANICS & MISCELLANEOUS

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531070

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-01

Client ID: IRM2-GRID-101

Sample Location: NEW YORK

Matrix: Soil

Date Collected: 11/24/15 15:22

Date Received: 11/24/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531070

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-02

Client ID: IRM2-GRID-102

Sample Location: NEW YORK

Matrix: Soil

Date Collected: 11/24/15 15:26

Date Received: 11/24/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-03**Client ID:** IRM2-GRID-103**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 15:29**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-04**Client ID:** IRM2-GRID-104**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 15:31**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.9		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-05**Client ID:** IRM2-GRID-105**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 15:32**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-06**Client ID:** IRM2-GRID-106**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 15:34**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-07**Client ID:** IRM2-GRID-107**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 15:36**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-08**Client ID:** IRM2-GRID-108**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 15:37**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-09**Client ID:** IRM2-GRID-109**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 15:41**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531070

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-10

Client ID: IRM2-GRID-110

Sample Location: NEW YORK

Matrix: Soil

Date Collected: 11/24/15 15:43

Date Received: 11/24/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531070

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-11

Client ID: IRM2-GRID-111

Sample Location: NEW YORK

Matrix: Soil

Date Collected: 11/24/15 15:44

Date Received: 11/24/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-12**Client ID:** IRM2-GRID-112**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 15:46**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.1		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-13**Client ID:** IRM2-GRID-113**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 15:55**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-14**Client ID:** IRM2-GRID-114**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 15:57**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-15**Client ID:** IRM2-GRID-115**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:02**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-16**Client ID:** IRM2-GRID-116**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:04**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-17**Client ID:** IRM2-GRID-117**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:05**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-18**Client ID:** IRM2-GRID-118**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:07**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-19**Client ID:** IRM2-GRID-119**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:10**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-20**Client ID:** IRM2-GRID-120**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:12**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	11/25/15 22:47	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-21**Client ID:** IRM2-GRID-121**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:18**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-22**Client ID:** IRM2-GRID-122**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:20**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-23**Client ID:** IRM2-GRID-123**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:22**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-24**Client ID:** IRM2-GRID-124**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:24**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-25**Client ID:** IRM2-GRID-125**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:28**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.1		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-26**Client ID:** IRM2-GRID-126**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:30**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-27**Client ID:** IRM2-GRID-127**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:32**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-28**Client ID:** IRM2-GRID-128**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:35**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-29**Client ID:** IRM2-GRID-129**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:37**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-30**Client ID:** IRM2-GRID-130**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:40**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531070

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531070-31

Client ID: IRM2-GRID-131

Sample Location: NEW YORK

Matrix: Soil

Date Collected: 11/24/15 16:44

Date Received: 11/24/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.9		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-32**Client ID:** IRM2-GRID-132**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:55**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-33**Client ID:** IRM2-GRID-133**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 16:57**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.4		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-34**Client ID:** IRM2-GRID-134**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 17:00**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.1		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-35**Client ID:** IRM2-GRID-135**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 17:04**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-36**Client ID:** IRM2-GRID-136**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 17:08**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-37**Client ID:** IRM2-GRID-137**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 17:10**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-38**Client ID:** 3179-112415-0002**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 00:00**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531070**Report Date:** 12/01/15**SAMPLE RESULTS****Lab ID:** L1531070-39**Client ID:** 3179-112415-0003**Sample Location:** NEW YORK**Matrix:** Soil**Date Collected:** 11/24/15 00:00**Date Received:** 11/24/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	11/25/15 23:05	30,2540G	RT



Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1531070
Report Date: 12/01/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG844536-1 QC Sample: L1531070-10 Client ID: IRM2-GRID-110						
Solids, Total	90.8	90.9	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 21-39 QC Batch ID: WG844540-1 QC Sample: L1531070-30 Client ID: IRM2-GRID-130						
Solids, Total	86.5	88.3	%	2		20

Project Name: IRM SAMPLING

Lab Number: L1531070

Project Number: 34201-313

Report Date: 12/01/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1531070-01A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-02A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-03A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-04A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-05A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-06A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-07A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-08A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-09A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-10A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-10A1	Glass 60mL/2oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-10A2	Glass 60mL/2oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-11A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-12A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-13A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-14A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-15A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-16A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-17A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-18A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-19A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-20A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-21A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-22A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-23A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-24A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-25A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-26A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-27A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)

*Values in parentheses indicate holding time in days



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531070

Report Date: 12/01/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1531070-28A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-29A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-30A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-30A1	Glass 60mL/2oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-30A2	Glass 60mL/2oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-31A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-32A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-33A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-34A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-35A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-36A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-37A	Glass 120ml/4oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-38A	Glass 60mL/2oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)
L1531070-39A	Glass 60mL/2oz unpreserved	A	N/A	3.3	Y	Absent	TS(7),NYTCL-8082(14)

Container Comments

L1531070-01A

L1531070-04A

*Values in parentheses indicate holding time in days

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531070
Report Date: 12/01/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: IRM SAMPLING
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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 8260C: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; Iodomethane (methyl iodide) (soil); Methyl methacrylate (soil); Azobenzene.

EPA 8270D: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

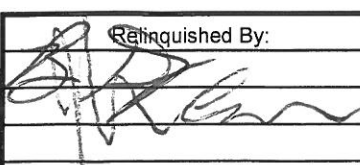
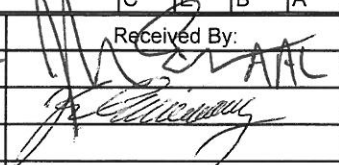
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>2</u> of <u>4</u>		Date Rec'd in Lab <u>11/25/15</u>		ALPHA Job # <u>LIS31070</u>	
		Client Information Client: <u>Haley & Aldrich, Inc.</u> Address: <u>200 Town Centre Drive</u> Suite <u>102 Rochester, NY 14623</u> Phone: <u>585-321-4235</u> Fax: <u></u> Email: <u>Bdrayn@haleyaldrich.com</u>		Project Information Project Name: <u>IRM Sampling</u> Project Location: <u>New York</u> Project # <u>34201-313</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☒ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO # <u>15555</u>	
		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other: <u>NA</u>					
Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS PCB		Sample Filtration ☐ Done ☐ Lab to do ☐ Lab to do (Please Specify below)		Sample Specific Comments			
These samples have been previously analyzed by Alpha ☐		Standard ☐ Due Date: <u>12/1/2015</u> Rush (only if pre approved) ☒ <u>3-DAY</u> # of Days:							
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials	
<u>31070-11</u>		<u>IRM2-GRID-111</u>		<u>11/24/15 15:44</u>		<u>Soil</u>		<u>BD</u>	
<u>12</u>		<u>IRM2-GRID-112</u>		<u>15:40</u>		<u>Soil</u>		<u>BD</u>	
<u>13</u>		<u>IRM2-GRID-113</u>		<u>15:55</u>		<u>Soil</u>		<u>BD</u>	
<u>14</u>		<u>IRM2-GRID-114</u>		<u>15:57</u>		<u>Soil</u>		<u>BD</u>	
<u>15</u>		<u>IRM2-GRID-115</u>		<u>16:02</u>		<u>Soil</u>		<u>BD</u>	
<u>16</u>		<u>IRM2-GRID-116</u>		<u>16:04</u>		<u>Soil</u>		<u>BD</u>	
<u>17</u>		<u>IRM2-GRID-117</u>		<u>16:05</u>		<u>Soil</u>		<u>BD</u>	
<u>18</u>		<u>IRM2-GRID-118</u>		<u>16:07</u>		<u>Soil</u>		<u>BD</u>	
<u>19</u>		<u>IRM2-GRID-119</u>		<u>16:10</u>		<u>Soil</u>		<u>BD</u>	
<u>20</u>		<u>IRM2-GRID-120</u>		<u>16:12</u>		<u>Soil</u>		<u>BD</u>	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		P P A P A V C E B A H H	
Form No: 01-25 (rev. 30-Sept-2013)		Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/25/15 2015</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/25/15 2015</u>	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 3 of 4		Date Rec'd in Lab 11/25/15		ALPHA Job # LIS31070	
Client Information Client: Haley & Aldrich, Inc. Address: 200 Town Centre Drive Suite 102 Rochester, NY 14623 Phone: 585-321-4235 Fax: 585-321-4235 Email: Bdrayn@haleyaldrich.com		Project Information Project Name: IRM Sampling Project Location: New York Project # 34201-313 (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☒ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO # 15555			
		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other: NA					
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:		ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles			
Please specify Metals or TAL.		PCB		Sample Specific Comments					
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials	
31070-21		IRM2-GRID-121 - 112415-1018		11/24/15 10:18		Soil		X	
22		IRM2-GRID-122 - 112415-1020		10:20		Soil		X	
23		IRM2-GRID-123 - 112415-1022		10:22		Soil		X	
24		IRM2-GRID-124 - 112415-1024		10:24		Soil		X	
25		IRM2-GRID-125 - 112415-1028		10:28		Soil		X	
26		IRM2-GRID-126 - 112415-1030		10:30		Soil		X	
27		IRM2-GRID-127 - 112415-1032		10:32		Soil		X	
28		IRM2-GRID-128 - 112415-1035		10:35		Soil		X	
29		IRM2-GRID-129 - 112415-1037		10:37		Soil		X	
30		IRM2-GRID-130 - 112415-1040 BID		10:40		Soil		X	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type P P A P A V		Preservative C E B A H H	
Form No: 01-25 (rev. 30-Sept-2013)		Relinquished By: 		Date/Time 11/24/15 2015		Received By: 		Date/Time 11/25/15 02:30	
								Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <u>TERMS & CONDITIONS</u> .	

L

11/25/15

LIS31070

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APPENDIX D

Post-Removal Soil Sample Laboratory Reports



ANALYTICAL REPORT

Lab Number:	L1531228
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623-4264
ATTN:	Benjamin Drayn
Phone:	(585) 321-4245
Project Name:	IRM SAMPLING
Project Number:	34201-313
Report Date:	12/02/15

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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



Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531228
Report Date: 12/02/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1531228-01	SB-IRM2-101-SURF	SOIL	NEW YORK	11/25/15 12:50	11/25/15
L1531228-02	SB-IRM2-102-SURF	SOIL	NEW YORK	11/25/15 12:56	11/25/15
L1531228-03	SB-IRM2-103-SURF	SOIL	NEW YORK	11/25/15 13:05	11/25/15
L1531228-04	SB-IRM2-104-SURF	SOIL	NEW YORK	11/25/15 13:12	11/25/15
L1531228-05	SB-IRM2-105-SURF	SOIL	NEW YORK	11/25/15 13:20	11/25/15

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531228
Report Date: 12/02/15

Case Narrative

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

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

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

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

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531228
Report Date: 12/02/15

Case Narrative (continued)

Report Submission

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

Semivolatile Organics

The WG844678-2 LCS recovery, associated with L1531228-01 through -05, is below the acceptance criteria for 2,4-dinitrophenol (0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

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

Authorized Signature:



Cristin Walker

Title: Technical Director/Representative

Date: 12/02/15

ORGANICS

VOLATILES

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-01
 Client ID: SB-IRM2-101-SURF
 Sample Location: NEW YORK
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/01/15 12:50
 Analyst: MV
 Percent Solids: 88%

Date Collected: 11/25/15 12:50
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.9	0.98	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.08	1
Chloroform	ND		ug/kg	1.3	0.33	1
Carbon tetrachloride	ND		ug/kg	0.89	0.19	1
1,2-Dichloropropane	ND		ug/kg	3.1	0.20	1
Dibromochloromethane	ND		ug/kg	0.89	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.27	1
Tetrachloroethene	ND		ug/kg	0.89	0.12	1
Chlorobenzene	ND		ug/kg	0.89	0.31	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.34	1
1,2-Dichloroethane	ND		ug/kg	0.89	0.10	1
1,1,1-Trichloroethane	ND		ug/kg	0.89	0.10	1
Bromodichloromethane	ND		ug/kg	0.89	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	0.89	0.11	1
cis-1,3-Dichloropropene	ND		ug/kg	0.89	0.10	1
Bromoform	ND		ug/kg	3.6	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.89	0.09	1
Benzene	ND		ug/kg	0.89	0.10	1
Toluene	ND		ug/kg	1.3	0.17	1
Ethylbenzene	ND		ug/kg	0.89	0.11	1
Chloromethane	ND		ug/kg	4.4	0.26	1
Bromomethane	ND		ug/kg	1.8	0.30	1
Vinyl chloride	ND		ug/kg	1.8	0.10	1
Chloroethane	ND		ug/kg	1.8	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.89	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.19	1
Trichloroethene	ND		ug/kg	0.89	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	4.4	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	4.4	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	4.4	0.12	1

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-01
 Client ID: SB-IRM2-101-SURF
 Sample Location: NEW YORK

Date Collected: 11/25/15 12:50
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.8	0.08	1
p/m-Xylene	ND		ug/kg	1.8	0.18	1
o-Xylene	ND		ug/kg	1.8	0.15	1
cis-1,2-Dichloroethene	ND		ug/kg	0.89	0.13	1
Styrene	ND		ug/kg	1.8	0.36	1
Dichlorodifluoromethane	ND		ug/kg	8.9	0.17	1
Acetone	3.6	J	ug/kg	8.9	0.92	1
Carbon disulfide	ND		ug/kg	8.9	0.98	1
2-Butanone	ND		ug/kg	8.9	0.24	1
4-Methyl-2-pentanone	ND		ug/kg	8.9	0.22	1
2-Hexanone	ND		ug/kg	8.9	0.59	1
Bromochloromethane	ND		ug/kg	4.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	3.6	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.4	0.35	1
Isopropylbenzene	ND		ug/kg	0.89	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.4	0.13	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.4	0.16	1
Methyl Acetate	ND		ug/kg	18	0.24	1
Cyclohexane	ND		ug/kg	18	0.13	1
1,4-Dioxane	ND		ug/kg	89	13.	1
Freon-113	ND		ug/kg	18	0.24	1
Methyl cyclohexane	ND		ug/kg	3.6	0.14	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-02
Client ID: SB-IRM2-102-SURF
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/01/15 13:16
Analyst: MV
Percent Solids: 91%

Date Collected: 11/25/15 12:56
Date Received: 11/25/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.6	1.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.08	1
Chloroform	ND		ug/kg	1.4	0.36	1
Carbon tetrachloride	ND		ug/kg	0.96	0.20	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.96	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.96	0.13	1
Chlorobenzene	ND		ug/kg	0.96	0.33	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.37	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	0.96	0.11	1
Bromodichloromethane	ND		ug/kg	0.96	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.96	0.11	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.96	0.10	1
Benzene	ND		ug/kg	0.96	0.11	1
Toluene	ND		ug/kg	1.4	0.19	1
Ethylbenzene	ND		ug/kg	0.96	0.12	1
Chloromethane	ND		ug/kg	4.8	0.28	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.11	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Trichloroethene	ND		ug/kg	0.96	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	4.8	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	4.8	0.13	1

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-02
 Client ID: SB-IRM2-102-SURF
 Sample Location: NEW YORK

Date Collected: 11/25/15 12:56
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.9	0.08	1
p/m-Xylene	ND		ug/kg	1.9	0.19	1
o-Xylene	ND		ug/kg	1.9	0.16	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.14	1
Styrene	ND		ug/kg	1.9	0.39	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.18	1
Acetone	8.5	J	ug/kg	9.6	1.0	1
Carbon disulfide	ND		ug/kg	9.6	1.0	1
2-Butanone	ND		ug/kg	9.6	0.26	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	0.23	1
2-Hexanone	ND		ug/kg	9.6	0.64	1
Bromochloromethane	ND		ug/kg	4.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	3.8	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	0.38	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.8	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.8	0.17	1
Methyl Acetate	ND		ug/kg	19	0.26	1
Cyclohexane	ND		ug/kg	19	0.14	1
1,4-Dioxane	ND		ug/kg	96	14.	1
Freon-113	ND		ug/kg	19	0.26	1
Methyl cyclohexane	ND		ug/kg	3.8	0.15	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-03
Client ID: SB-IRM2-103-SURF
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/01/15 13:43
Analyst: MV
Percent Solids: 90%

Date Collected: 11/25/15 13:05
Date Received: 11/25/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.1	1.0	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.08	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.91	0.19	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.91	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.28	1
Tetrachloroethene	ND		ug/kg	0.91	0.13	1
Chlorobenzene	ND		ug/kg	0.91	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.35	1
1,2-Dichloroethane	ND		ug/kg	0.91	0.10	1
1,1,1-Trichloroethane	ND		ug/kg	0.91	0.10	1
Bromodichloromethane	ND		ug/kg	0.91	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	0.11	1
cis-1,3-Dichloropropene	ND		ug/kg	0.91	0.11	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.91	0.09	1
Benzene	ND		ug/kg	0.91	0.11	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.91	0.12	1
Chloromethane	ND		ug/kg	4.6	0.27	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.11	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.91	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.19	1
Trichloroethene	ND		ug/kg	0.91	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	4.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	0.13	1

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-03
 Client ID: SB-IRM2-103-SURF
 Sample Location: NEW YORK

Date Collected: 11/25/15 13:05
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.8	0.08	1
p/m-Xylene	ND		ug/kg	1.8	0.18	1
o-Xylene	ND		ug/kg	1.8	0.16	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	0.13	1
Styrene	ND		ug/kg	1.8	0.37	1
Dichlorodifluoromethane	ND		ug/kg	9.1	0.17	1
Acetone	6.4	J	ug/kg	9.1	0.95	1
Carbon disulfide	ND		ug/kg	9.1	1.0	1
2-Butanone	ND		ug/kg	9.1	0.25	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	0.22	1
2-Hexanone	ND		ug/kg	9.1	0.61	1
Bromochloromethane	ND		ug/kg	4.6	0.25	1
1,2-Dibromoethane	ND		ug/kg	3.6	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	0.36	1
Isopropylbenzene	ND		ug/kg	0.91	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.6	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.6	0.17	1
Methyl Acetate	ND		ug/kg	18	0.25	1
Cyclohexane	ND		ug/kg	18	0.13	1
1,4-Dioxane	ND		ug/kg	91	13.	1
Freon-113	ND		ug/kg	18	0.25	1
Methyl cyclohexane	ND		ug/kg	3.6	0.14	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-04
Client ID: SB-IRM2-104-SURF
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/01/15 14:09
Analyst: MV
Percent Solids: 91%

Date Collected: 11/25/15 13:12
Date Received: 11/25/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	6.0	0.35	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.16	1

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-04
 Client ID: SB-IRM2-104-SURF
 Sample Location: NEW YORK

Date Collected: 11/25/15 13:12
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.24	1
o-Xylene	ND		ug/kg	2.4	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	9.7	J	ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.32	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
2-Hexanone	ND		ug/kg	12	0.79	1
Bromochloromethane	ND		ug/kg	6.0	0.33	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.47	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.22	1
Methyl Acetate	ND		ug/kg	24	0.32	1
Cyclohexane	ND		ug/kg	24	0.17	1
1,4-Dioxane	ND		ug/kg	120	17.	1
Freon-113	ND		ug/kg	24	0.33	1
Methyl cyclohexane	ND		ug/kg	4.8	0.18	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-05
Client ID: SB-IRM2-105-SURF
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/01/15 14:35
Analyst: MV
Percent Solids: 80%

Date Collected: 11/25/15 13:20
Date Received: 11/25/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.9	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.7	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	5.9	0.34	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.9	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	5.9	0.16	1

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-05
 Client ID: SB-IRM2-105-SURF
 Sample Location: NEW YORK

Date Collected: 11/25/15 13:20
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.23	1
o-Xylene	ND		ug/kg	2.4	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Styrene	ND		ug/kg	2.4	0.47	1
Dichlorodifluoromethane	ND		ug/kg	12	0.22	1
Acetone	6.6	J	ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.32	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
2-Hexanone	ND		ug/kg	12	0.78	1
Bromochloromethane	ND		ug/kg	5.9	0.32	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	0.46	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	0.21	1
Methyl Acetate	ND		ug/kg	24	0.32	1
Cyclohexane	ND		ug/kg	24	0.17	1
1,4-Dioxane	ND		ug/kg	120	17.	1
Freon-113	ND		ug/kg	24	0.32	1
Methyl cyclohexane	ND		ug/kg	4.7	0.18	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/01/15 09:22
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-05 Batch: WG845430-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/01/15 09:22
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-05 Batch: WG845430-3					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 12/01/15 09:22

Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-05 Batch: WG845430-3					

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG845430-1 WG845430-2								
Methylene chloride	98		95		70-130	3		30
1,1-Dichloroethane	102		98		70-130	4		30
Chloroform	103		98		70-130	5		30
Carbon tetrachloride	110		103		70-130	7		30
1,2-Dichloropropane	98		95		70-130	3		30
Dibromochloromethane	107		102		70-130	5		30
2-Chloroethylvinyl ether	71		66	Q	70-130	7		30
1,1,2-Trichloroethane	108		101		70-130	7		30
Tetrachloroethene	120		110		70-130	9		30
Chlorobenzene	110		106		70-130	4		30
Trichlorofluoromethane	117		112		70-139	4		30
1,2-Dichloroethane	102		99		70-130	3		30
1,1,1-Trichloroethane	107		102		70-130	5		30
Bromodichloromethane	101		96		70-130	5		30
trans-1,3-Dichloropropene	109		103		70-130	6		30
cis-1,3-Dichloropropene	101		89		70-130	13		30
1,1-Dichloropropene	107		103		70-130	4		30
Bromoform	102		101		70-130	1		30
1,1,2,2-Tetrachloroethane	97		101		70-130	4		30
Benzene	102		97		70-130	5		30
Toluene	110		100		70-130	10		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG845430-1 WG845430-2								
Ethylbenzene	112		107		70-130	5		30
Chloromethane	98		96		52-130	2		30
Bromomethane	100		93		57-147	7		30
Vinyl chloride	106		103		67-130	3		30
Chloroethane	125		120		50-151	4		30
1,1-Dichloroethene	103		91		65-135	12		30
trans-1,2-Dichloroethene	102		99		70-130	3		30
Trichloroethene	108		102		70-130	6		30
1,2-Dichlorobenzene	116		111		70-130	4		30
1,3-Dichlorobenzene	118		114		70-130	3		30
1,4-Dichlorobenzene	117		112		70-130	4		30
Methyl tert butyl ether	90		87		66-130	3		30
p/m-Xylene	112		107		70-130	5		30
o-Xylene	108		103		70-130	5		30
cis-1,2-Dichloroethene	102		98		70-130	4		30
Dibromomethane	98		95		70-130	3		30
Styrene	109		105		70-130	4		30
Dichlorodifluoromethane	112		108		30-146	4		30
Acetone	85		84		54-140	1		30
Carbon disulfide	97		88		59-130	10		30
2-Butanone	91		90		70-130	1		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG845430-1 WG845430-2								
Vinyl acetate	90		90		70-130	0		30
4-Methyl-2-pentanone	91		89		70-130	2		30
1,2,3-Trichloropropane	103		102		68-130	1		30
2-Hexanone	92		93		70-130	1		30
Bromochloromethane	106		100		70-130	6		30
2,2-Dichloropropane	108		102		70-130	6		30
1,2-Dibromoethane	107		102		70-130	5		30
1,3-Dichloropropane	105		100		69-130	5		30
1,1,1,2-Tetrachloroethane	108		105		70-130	3		30
Bromobenzene	109		110		70-130	1		30
n-Butylbenzene	121		116		70-130	4		30
sec-Butylbenzene	118		112		70-130	5		30
tert-Butylbenzene	116		112		70-130	4		30
o-Chlorotoluene	111		113		70-130	2		30
p-Chlorotoluene	121		116		70-130	4		30
1,2-Dibromo-3-chloropropane	98		101		68-130	3		30
Hexachlorobutadiene	124		119		67-130	4		30
Isopropylbenzene	114		110		70-130	4		30
p-Isopropyltoluene	118		113		70-130	4		30
Naphthalene	105		104		70-130	1		30
Acrylonitrile	91		89		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG845430-1 WG845430-2								
Isopropyl Ether	95		91		66-130	4		30
tert-Butyl Alcohol	84		87		70-130	4		30
n-Propylbenzene	111		112		70-130	1		30
1,2,3-Trichlorobenzene	116		114		70-130	2		30
1,2,4-Trichlorobenzene	122		119		70-130	2		30
1,3,5-Trimethylbenzene	114		111		70-130	3		30
1,2,4-Trimethylbenzene	115		110		70-130	4		30
Methyl Acetate	92		98		51-146	6		30
Ethyl Acetate	85		90		70-130	6		30
Acrolein	120		122		70-130	2		30
Cyclohexane	108		102		59-142	6		30
1,4-Dioxane	81		77		65-136	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	112		103		50-139	8		30
p-Diethylbenzene	105		99		70-130	6		30
p-Ethyltoluene	99		98		70-130	1		30
1,2,4,5-Tetramethylbenzene	103		97		70-130	6		30
Tetrahydrofuran	86		80		66-130	7		30
Ethyl ether	99		95		67-130	4		30
trans-1,4-Dichloro-2-butene	97		98		70-130	1		30
Methyl cyclohexane	109		104		70-130	5		30
Ethyl-Tert-Butyl-Ether	94		90		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-05 Batch: WG845430-1 WG845430-2								
Tertiary-Amyl Methyl Ether	92		90		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	104		100		70-130
4-Bromofluorobenzene	92		100		70-130
Dibromofluoromethane	94		95		70-130

SEMIVOLATILES

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-01
Client ID: SB-IRM2-101-SURF
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/01/15 23:51
Analyst: AS
Percent Solids: 88%

Date Collected: 11/25/15 12:50
Date Received: 11/25/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	69	J	ug/kg	150	38.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	52.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	40.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	1500		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	65.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	56.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	120	1
Hexachloroethane	ND		ug/kg	150	33.	1
Isophorone	ND		ug/kg	160	49.	1
Naphthalene	ND		ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	160	44.	1
NDPA/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	55.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	36.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	47.	1
Benzo(a)anthracene	610		ug/kg	110	36.	1
Benzo(a)pyrene	620		ug/kg	150	45.	1
Benzo(b)fluoranthene	880		ug/kg	110	37.	1
Benzo(k)fluoranthene	320		ug/kg	110	35.	1

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-01
 Client ID: SB-IRM2-101-SURF
 Sample Location: NEW YORK

Date Collected: 11/25/15 12:50
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	640		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	34.	1
Anthracene	190		ug/kg	110	31.	1
Benzo(ghi)perylene	440		ug/kg	150	38.	1
Fluorene	63	J	ug/kg	180	53.	1
Phenanthrene	820		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	100	J	ug/kg	110	36.	1
Indeno(1,2,3-cd)pyrene	510		ug/kg	150	41.	1
Pyrene	1200		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	180	49.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	51.	1
4-Nitroaniline	ND		ug/kg	180	50.	1
Dibenzofuran	ND		ug/kg	180	61.	1
2-Methylnaphthalene	ND		ug/kg	220	59.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	57.	1
Acetophenone	ND		ug/kg	180	57.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	53.	1
2-Chlorophenol	ND		ug/kg	180	56.	1
2,4-Dichlorophenol	ND		ug/kg	160	60.	1
2,4-Dimethylphenol	ND		ug/kg	180	55.	1
2-Nitrophenol	ND		ug/kg	400	57.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	67.	1
Pentachlorophenol	ND		ug/kg	150	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	60.	1
Carbazole	100	J	ug/kg	180	40.	1
Benzaldehyde	74	J	ug/kg	240	74.	1
Caprolactam	ND		ug/kg	180	51.	1
Atrazine	ND		ug/kg	150	42.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	31.	1

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-01

Date Collected: 11/25/15 12:50

Client ID: SB-IRM2-101-SURF

Date Received: 11/25/15

Sample Location: NEW YORK

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	48		10-136
4-Terphenyl-d14	85		18-120

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-02
Client ID: SB-IRM2-102-SURF
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/02/15 00:17
Analyst: AS
Percent Solids: 91%

Date Collected: 11/25/15 12:56
Date Received: 11/25/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	37.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	50.	1
2-Chloronaphthalene	ND		ug/kg	180	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	39.	1
2,6-Dinitrotoluene	ND		ug/kg	180	46.	1
Fluoranthene	77	J	ug/kg	110	33.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	55.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	41.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	63.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	54.	1
Hexachlorobutadiene	ND		ug/kg	180	51.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	120	1
Hexachloroethane	ND		ug/kg	140	33.	1
Isophorone	ND		ug/kg	160	48.	1
Naphthalene	ND		ug/kg	180	60.	1
Nitrobenzene	ND		ug/kg	160	43.	1
NDPA/DPA	ND		ug/kg	140	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	47.	1
Butyl benzyl phthalate	ND		ug/kg	180	35.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	44.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1
Benzo(a)anthracene	ND		ug/kg	110	35.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	46	J	ug/kg	110	36.	1
Benzo(k)fluoranthene	ND		ug/kg	110	34.	1

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-02
 Client ID: SB-IRM2-102-SURF
 Sample Location: NEW YORK

Date Collected: 11/25/15 12:56
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	110	35.	1
Acenaphthylene	ND		ug/kg	140	34.	1
Anthracene	ND		ug/kg	110	30.	1
Benzo(ghi)perylene	ND		ug/kg	140	37.	1
Fluorene	ND		ug/kg	180	52.	1
Phenanthrene	51	J	ug/kg	110	35.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	35.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	40.	1
Pyrene	62	J	ug/kg	110	35.	1
Biphenyl	ND		ug/kg	410	59.	1
4-Chloroaniline	ND		ug/kg	180	47.	1
2-Nitroaniline	ND		ug/kg	180	51.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	48.	1
Dibenzofuran	ND		ug/kg	180	60.	1
2-Methylnaphthalene	ND		ug/kg	220	57.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	56.	1
Acetophenone	ND		ug/kg	180	56.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	52.	1
2-Chlorophenol	ND		ug/kg	180	54.	1
2,4-Dichlorophenol	ND		ug/kg	160	58.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	390	56.	1
4-Nitrophenol	ND		ug/kg	250	58.	1
2,4-Dinitrophenol	ND		ug/kg	860	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	66.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	53.	1
2-Methylphenol	ND		ug/kg	180	58.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	59.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	58.	1
Carbazole	ND		ug/kg	180	39.	1
Benzaldehyde	ND		ug/kg	240	73.	1
Caprolactam	ND		ug/kg	180	50.	1
Atrazine	ND		ug/kg	140	41.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	30.	1

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-02

Date Collected: 11/25/15 12:56

Client ID: SB-IRM2-102-SURF

Date Received: 11/25/15

Sample Location: NEW YORK

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	39		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	25		10-136
4-Terphenyl-d14	77		18-120

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-03
Client ID: SB-IRM2-103-SURF
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/02/15 00:43
Analyst: AS
Percent Solids: 90%

Date Collected: 11/25/15 13:05
Date Received: 11/25/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	54	J	ug/kg	150	38.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	52.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	40.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	680		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	65.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	56.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	49.	1
Naphthalene	ND		ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	170	44.	1
NDPA/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	55.	1
Bis(2-ethylhexyl)phthalate	350		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	36.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	47.	1
Benzo(a)anthracene	240		ug/kg	110	36.	1
Benzo(a)pyrene	220		ug/kg	150	45.	1
Benzo(b)fluoranthene	280		ug/kg	110	37.	1
Benzo(k)fluoranthene	120		ug/kg	110	35.	1

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-03
 Client ID: SB-IRM2-103-SURF
 Sample Location: NEW YORK

Date Collected: 11/25/15 13:05
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	220		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	34.	1
Anthracene	110		ug/kg	110	31.	1
Benzo(ghi)perylene	140	J	ug/kg	150	38.	1
Fluorene	ND		ug/kg	180	53.	1
Phenanthrene	560		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	36.	1
Indeno(1,2,3-cd)pyrene	160		ug/kg	150	41.	1
Pyrene	530		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	180	49.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	51.	1
4-Nitroaniline	ND		ug/kg	180	50.	1
Dibenzofuran	ND		ug/kg	180	62.	1
2-Methylnaphthalene	ND		ug/kg	220	59.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	57.	1
Acetophenone	ND		ug/kg	180	57.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	54.	1
2-Chlorophenol	ND		ug/kg	180	56.	1
2,4-Dichlorophenol	ND		ug/kg	170	60.	1
2,4-Dimethylphenol	ND		ug/kg	180	55.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	890	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	68.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	55.	1
2-Methylphenol	ND		ug/kg	180	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	61.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	60.	1
Carbazole	73	J	ug/kg	180	40.	1
Benzaldehyde	ND		ug/kg	240	75.	1
Caprolactam	ND		ug/kg	180	51.	1
Atrazine	ND		ug/kg	150	42.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	31.	1

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-03

Date Collected: 11/25/15 13:05

Client ID: SB-IRM2-103-SURF

Date Received: 11/25/15

Sample Location: NEW YORK

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	42		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	42		10-136
4-Terphenyl-d14	87		18-120

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-04
Client ID: SB-IRM2-104-SURF
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/02/15 01:08
Analyst: AS
Percent Solids: 91%

Date Collected: 11/25/15 13:12
Date Received: 11/25/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	37.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	51.	1
2-Chloronaphthalene	ND		ug/kg	180	59.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	39.	1
2,6-Dinitrotoluene	ND		ug/kg	180	46.	1
Fluoranthene	ND		ug/kg	110	33.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	55.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	64.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	55.	1
Hexachlorobutadiene	ND		ug/kg	180	51.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	140	33.	1
Isophorone	ND		ug/kg	160	48.	1
Naphthalene	ND		ug/kg	180	60.	1
Nitrobenzene	ND		ug/kg	160	43.	1
NDPA/DPA	ND		ug/kg	140	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	47.	1
Butyl benzyl phthalate	ND		ug/kg	180	35.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	44.	1
Diethyl phthalate	ND		ug/kg	180	38.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1
Benzo(a)anthracene	ND		ug/kg	110	35.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	36.	1
Benzo(k)fluoranthene	ND		ug/kg	110	34.	1

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-04
 Client ID: SB-IRM2-104-SURF
 Sample Location: NEW YORK

Date Collected: 11/25/15 13:12
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	110	35.	1
Acenaphthylene	ND		ug/kg	140	34.	1
Anthracene	ND		ug/kg	110	30.	1
Benzo(ghi)perylene	ND		ug/kg	140	38.	1
Fluorene	ND		ug/kg	180	52.	1
Phenanthrene	ND		ug/kg	110	35.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	35.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	40.	1
Pyrene	ND		ug/kg	110	35.	1
Biphenyl	ND		ug/kg	410	60.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	51.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	49.	1
Dibenzofuran	ND		ug/kg	180	60.	1
2-Methylnaphthalene	ND		ug/kg	220	58.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	56.	1
Acetophenone	ND		ug/kg	180	56.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	52.	1
2-Chlorophenol	ND		ug/kg	180	54.	1
2,4-Dichlorophenol	ND		ug/kg	160	58.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	390	56.	1
4-Nitrophenol	ND		ug/kg	250	58.	1
2,4-Dinitrophenol	ND		ug/kg	870	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	66.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	53.	1
2-Methylphenol	ND		ug/kg	180	58.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	59.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	58.	1
Carbazole	ND		ug/kg	180	39.	1
Benzaldehyde	ND		ug/kg	240	73.	1
Caprolactam	ND		ug/kg	180	50.	1
Atrazine	ND		ug/kg	140	41.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	31.	1

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-04

Date Collected: 11/25/15 13:12

Client ID: SB-IRM2-104-SURF

Date Received: 11/25/15

Sample Location: NEW YORK

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	34		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	30		10-136
4-Terphenyl-d14	81		18-120

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-05
Client ID: SB-IRM2-105-SURF
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/02/15 01:34
Analyst: AS
Percent Solids: 80%

Date Collected: 11/25/15 13:20
Date Received: 11/25/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 13:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	42.	1
Hexachlorobenzene	ND		ug/kg	120	38.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	58.	1
2-Chloronaphthalene	ND		ug/kg	210	67.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	45.	1
2,6-Dinitrotoluene	ND		ug/kg	210	53.	1
Fluoranthene	72	J	ug/kg	120	38.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	63.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	48.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	73.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	62.	1
Hexachlorobutadiene	ND		ug/kg	210	58.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	130	1
Hexachloroethane	ND		ug/kg	160	38.	1
Isophorone	ND		ug/kg	190	55.	1
Naphthalene	ND		ug/kg	210	69.	1
Nitrobenzene	ND		ug/kg	190	49.	1
NDPA/DPA	ND		ug/kg	160	43.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	62.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	54.	1
Butyl benzyl phthalate	ND		ug/kg	210	40.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	51.	1
Diethyl phthalate	ND		ug/kg	210	44.	1
Dimethyl phthalate	ND		ug/kg	210	52.	1
Benzo(a)anthracene	ND		ug/kg	120	40.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	42	J	ug/kg	120	42.	1
Benzo(k)fluoranthene	ND		ug/kg	120	39.	1

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-05
 Client ID: SB-IRM2-105-SURF
 Sample Location: NEW YORK

Date Collected: 11/25/15 13:20
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	120	40.	1
Acenaphthylene	ND		ug/kg	160	39.	1
Anthracene	ND		ug/kg	120	34.	1
Benzo(ghi)perylene	ND		ug/kg	160	43.	1
Fluorene	ND		ug/kg	210	59.	1
Phenanthrene	50	J	ug/kg	120	40.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	40.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	46.	1
Pyrene	59	J	ug/kg	120	40.	1
Biphenyl	ND		ug/kg	470	68.	1
4-Chloroaniline	ND		ug/kg	210	54.	1
2-Nitroaniline	ND		ug/kg	210	58.	1
3-Nitroaniline	ND		ug/kg	210	57.	1
4-Nitroaniline	ND		ug/kg	210	56.	1
Dibenzofuran	ND		ug/kg	210	69.	1
2-Methylnaphthalene	ND		ug/kg	250	66.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	64.	1
Acetophenone	ND		ug/kg	210	64.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	60.	1
2-Chlorophenol	ND		ug/kg	210	62.	1
2,4-Dichlorophenol	ND		ug/kg	190	67.	1
2,4-Dimethylphenol	ND		ug/kg	210	62.	1
2-Nitrophenol	ND		ug/kg	450	64.	1
4-Nitrophenol	ND		ug/kg	290	67.	1
2,4-Dinitrophenol	ND		ug/kg	990	280	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	76.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	210	61.	1
2-Methylphenol	ND		ug/kg	210	66.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	68.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	67.	1
Carbazole	ND		ug/kg	210	44.	1
Benzaldehyde	ND		ug/kg	270	84.	1
Caprolactam	ND		ug/kg	210	57.	1
Atrazine	ND		ug/kg	160	47.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	210	35.	1

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-05

Date Collected: 11/25/15 13:20

Client ID: SB-IRM2-105-SURF

Date Received: 11/25/15

Sample Location: NEW YORK

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	39		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	31		10-136
4-Terphenyl-d14	79		18-120

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 11/30/15 20:57
 Analyst: AS

Extraction Method: EPA 3546
 Extraction Date: 11/27/15 13:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG844678-1					
Acenaphthene	ND		ug/kg	130	34.
Hexachlorobenzene	ND		ug/kg	99	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	99	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	47.
Hexachlorocyclopentadiene	ND		ug/kg	470	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NDPA/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	99	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	33.

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 11/30/15 20:57
 Analyst: AS

Extraction Method: EPA 3546
 Extraction Date: 11/27/15 13:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG844678-1					
Benzo(k)fluoranthene	ND		ug/kg	99	32.
Chrysene	ND		ug/kg	99	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	99	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	99	32.
Dibenzo(a,h)anthracene	ND		ug/kg	99	32.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	99	32.
Biphenyl	ND		ug/kg	380	54.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	47.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	45.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	790	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	60.
Pentachlorophenol	ND		ug/kg	130	35.

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 11/30/15 20:57
 Analyst: AS

Extraction Method: EPA 3546
 Extraction Date: 11/27/15 13:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG844678-1					
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Carbazole	ND		ug/kg	160	36.
Benzaldehyde	ND		ug/kg	220	67.
Caprolactam	ND		ug/kg	160	46.
Atrazine	ND		ug/kg	130	37.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	28.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	85		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG844678-2 WG844678-3								
Acenaphthene	86		73		31-137	16		50
Benzidine	18		13		10-66	32		50
n-Nitrosodimethylamine	70		64		22-100	9		50
1,2,4-Trichlorobenzene	82		71		38-107	14		50
Hexachlorobenzene	88		74		40-140	17		50
Bis(2-chloroethyl)ether	74		65		40-140	13		50
2-Chloronaphthalene	90		77		40-140	16		50
1,2-Dichlorobenzene	78		68		40-140	14		50
1,3-Dichlorobenzene	77		68		40-140	12		50
1,4-Dichlorobenzene	77		68		28-104	12		50
3,3'-Dichlorobenzidine	66		54		40-140	20		50
2,4-Dinitrotoluene	86		74		28-89	15		50
2,6-Dinitrotoluene	90		77		40-140	16		50
Fluoranthene	92		79		40-140	15		50
4-Chlorophenyl phenyl ether	92		78		40-140	16		50
4-Bromophenyl phenyl ether	89		76		40-140	16		50
Azobenzene	77		65		40-140	17		50
Bis(2-chloroisopropyl)ether	67		59		40-140	13		50
Bis(2-chloroethoxy)methane	79		67		40-117	16		50
Hexachlorobutadiene	84		72		40-140	15		50
Hexachlorocyclopentadiene	135		122		40-140	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG844678-2 WG844678-3								
Hexachloroethane	73		64		40-140	13		50
Isophorone	78		68		40-140	14		50
Naphthalene	83		72		40-140	14		50
Nitrobenzene	74		63		40-140	16		50
NitrosoDiPhenylAmine(NDPA)/DPA	91		78		36-157	15		50
n-Nitrosodi-n-propylamine	73		63		32-121	15		50
Bis(2-Ethylhexyl)phthalate	84		71		40-140	17		50
Butyl benzyl phthalate	86		73		40-140	16		50
Di-n-butylphthalate	90		75		40-140	18		50
Di-n-octylphthalate	80		66		40-140	19		50
Diethyl phthalate	85		71		40-140	18		50
Dimethyl phthalate	86		72		40-140	18		50
Benzo(a)anthracene	90		77		40-140	16		50
Benzo(a)pyrene	92		79		40-140	15		50
Benzo(b)fluoranthene	88		76		40-140	15		50
Benzo(k)fluoranthene	91		77		40-140	17		50
Chrysene	88		75		40-140	16		50
Acenaphthylene	91		78		40-140	15		50
Anthracene	96		81		40-140	17		50
Benzo(ghi)perylene	88		74		40-140	17		50
Fluorene	88		75		40-140	16		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG844678-2 WG844678-3								
Phenanthrene	90		77		40-140	16		50
Dibenzo(a,h)anthracene	94		79		40-140	17		50
Indeno(1,2,3-cd)Pyrene	91		76		40-140	18		50
Pyrene	91		78		35-142	15		50
Biphenyl	86		72		54-104	18		50
Aniline	48		41		40-140	16		50
4-Chloroaniline	72		58		40-140	22		50
2-Nitroaniline	84		71		47-134	17		50
3-Nitroaniline	71		59		26-129	18		50
4-Nitroaniline	82		73		41-125	12		50
Dibenzofuran	87		74		40-140	16		50
2-Methylnaphthalene	88		75		40-140	16		50
1,2,4,5-Tetrachlorobenzene	82		70		40-117	16		50
Acetophenone	88		77		14-144	13		50
2,4,6-Trichlorophenol	93		78		30-130	18		50
P-Chloro-M-Cresol	89		75		26-103	17		50
2-Chlorophenol	82		71		25-102	14		50
2,4-Dichlorophenol	90		78		30-130	14		50
2,4-Dimethylphenol	80		79		30-130	1		50
2-Nitrophenol	79		68		30-130	15		50
4-Nitrophenol	78		69		11-114	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG844678-2 WG844678-3								
2,4-Dinitrophenol	0	Q	13		4-130	NC		50
4,6-Dinitro-o-cresol	34		35		10-130	3		50
Pentachlorophenol	66		61		17-109	8		50
Phenol	88		75		26-90	16		50
2-Methylphenol	86		74		30-130	15		50
3-Methylphenol/4-Methylphenol	89		77		30-130	14		50
2,4,5-Trichlorophenol	95		81		30-130	16		50
Benzoic Acid	0	Q	0	Q	10-66	NC		50
Benzyl Alcohol	79		68		40-140	15		50
Carbazole	91		79		54-128	14		50
Benzaldehyde	65		56		40-140	15		50
Caprolactam	73		64		15-130	13		50
Atrazine	109		93		40-140	16		50
2,3,4,6-Tetrachlorophenol	86		74		40-140	15		50
Pyridine	38		36		10-93	5		50
Parathion, ethyl	76		66		40-140	14		50
1-Methylnaphthalene	83		70		26-130	17		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG844678-2 WG844678-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		75		25-120
Phenol-d6	81		72		10-120
Nitrobenzene-d5	66		60		23-120
2-Fluorobiphenyl	86		77		30-120
2,4,6-Tribromophenol	85		75		10-136
4-Terphenyl-d14	88		77		18-120

PESTICIDES

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-01
 Client ID: SB-IRM2-101-SURF
 Sample Location: NEW YORK
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 11/29/15 20:47
 Analyst: KE
 Percent Solids: 88%

Date Collected: 11/25/15 12:50
 Date Received: 11/25/15
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 11/27/15 10:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.336	1	A
Lindane	ND		ug/kg	0.715	0.320	1	A
Alpha-BHC	ND		ug/kg	0.715	0.203	1	A
Beta-BHC	ND		ug/kg	1.72	0.651	1	A
Heptachlor	ND		ug/kg	0.858	0.385	1	A
Aldrin	ND		ug/kg	1.72	0.604	1	A
Heptachlor epoxide	ND		ug/kg	3.22	0.965	1	A
Endrin	ND		ug/kg	0.715	0.293	1	A
Endrin aldehyde	ND		ug/kg	2.14	0.751	1	A
Endrin ketone	ND		ug/kg	1.72	0.442	1	A
Dieldrin	ND		ug/kg	1.07	0.536	1	A
4,4'-DDE	0.573	J	ug/kg	1.72	0.397	1	B
4,4'-DDD	ND		ug/kg	1.72	0.612	1	A
4,4'-DDT	1.60	J	ug/kg	3.22	1.38	1	B
Endosulfan I	ND		ug/kg	1.72	0.405	1	A
Endosulfan II	ND		ug/kg	1.72	0.573	1	A
Endosulfan sulfate	ND		ug/kg	0.715	0.340	1	A
Methoxychlor	ND		ug/kg	3.22	1.00	1	A
Toxaphene	ND		ug/kg	32.2	9.01	1	A
cis-Chlordane	ND		ug/kg	2.14	0.598	1	A
trans-Chlordane	ND		ug/kg	2.14	0.566	1	A
Chlordane	ND		ug/kg	13.9	5.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	78		30-150	A

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-02
Client ID: SB-IRM2-102-SURF
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/29/15 21:02
Analyst: KE
Percent Solids: 91%

Date Collected: 11/25/15 12:56
Date Received: 11/25/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 10:22
Cleanup Method: EPA 3620B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.327	1	A
Lindane	ND		ug/kg	0.697	0.311	1	A
Alpha-BHC	ND		ug/kg	0.697	0.198	1	A
Beta-BHC	ND		ug/kg	1.67	0.634	1	A
Heptachlor	ND		ug/kg	0.836	0.375	1	A
Aldrin	ND		ug/kg	1.67	0.589	1	A
Heptachlor epoxide	ND		ug/kg	3.14	0.941	1	A
Endrin	ND		ug/kg	0.697	0.286	1	A
Endrin aldehyde	ND		ug/kg	2.09	0.732	1	A
Endrin ketone	ND		ug/kg	1.67	0.430	1	A
Dieldrin	ND		ug/kg	1.04	0.522	1	A
4,4'-DDE	ND		ug/kg	1.67	0.387	1	A
4,4'-DDD	ND		ug/kg	1.67	0.596	1	A
4,4'-DDT	ND		ug/kg	3.14	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.395	1	A
Endosulfan II	ND		ug/kg	1.67	0.559	1	A
Endosulfan sulfate	ND		ug/kg	0.697	0.332	1	A
Methoxychlor	ND		ug/kg	3.14	0.975	1	A
Toxaphene	ND		ug/kg	31.4	8.78	1	A
cis-Chlordane	ND		ug/kg	2.09	0.582	1	A
trans-Chlordane	ND		ug/kg	2.09	0.552	1	A
Chlordane	ND		ug/kg	13.6	5.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	86		30-150	A

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-03
Client ID: SB-IRM2-103-SURF
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/29/15 21:18
Analyst: KE
Percent Solids: 90%

Date Collected: 11/25/15 13:05
Date Received: 11/25/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 10:22
Cleanup Method: EPA 3620B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.333	1	A
Lindane	ND		ug/kg	0.708	0.316	1	A
Alpha-BHC	ND		ug/kg	0.708	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.644	1	A
Heptachlor	ND		ug/kg	0.850	0.381	1	A
Aldrin	ND		ug/kg	1.70	0.598	1	A
Heptachlor epoxide	ND		ug/kg	3.19	0.956	1	A
Endrin	ND		ug/kg	0.708	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.744	1	A
Endrin ketone	ND		ug/kg	1.70	0.438	1	A
Dieldrin	ND		ug/kg	1.06	0.531	1	A
4,4'-DDE	ND		ug/kg	1.70	0.393	1	A
4,4'-DDD	ND		ug/kg	1.70	0.606	1	A
4,4'-DDT	ND		ug/kg	3.19	1.37	1	A
Endosulfan I	ND		ug/kg	1.70	0.402	1	A
Endosulfan II	ND		ug/kg	1.70	0.568	1	A
Endosulfan sulfate	ND		ug/kg	0.708	0.337	1	A
Methoxychlor	ND		ug/kg	3.19	0.991	1	A
Toxaphene	ND		ug/kg	31.9	8.92	1	A
cis-Chlordane	ND		ug/kg	2.12	0.592	1	A
trans-Chlordane	ND		ug/kg	2.12	0.561	1	A
Chlordane	ND		ug/kg	13.8	5.63	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	80		30-150	A

Project Name: IRM SAMPLING**Lab Number:** L1531228**Project Number:** 34201-313**Report Date:** 12/02/15**SAMPLE RESULTS**

Lab ID: L1531228-04
Client ID: SB-IRM2-104-SURF
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/29/15 21:35
Analyst: KE
Percent Solids: 91%

Date Collected: 11/25/15 13:12
Date Received: 11/25/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/27/15 10:22
Cleanup Method: EPA 3620B
Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.330	1	A
Lindane	ND		ug/kg	0.703	0.314	1	A
Alpha-BHC	ND		ug/kg	0.703	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.640	1	A
Heptachlor	ND		ug/kg	0.844	0.378	1	A
Aldrin	ND		ug/kg	1.69	0.594	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.949	1	A
Endrin	ND		ug/kg	0.703	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.738	1	A
Endrin ketone	ND		ug/kg	1.69	0.434	1	A
Dieldrin	ND		ug/kg	1.05	0.527	1	A
4,4'-DDE	ND		ug/kg	1.69	0.390	1	A
4,4'-DDD	ND		ug/kg	1.69	0.602	1	A
4,4'-DDT	ND		ug/kg	3.16	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.399	1	A
Endosulfan II	ND		ug/kg	1.69	0.564	1	A
Endosulfan sulfate	ND		ug/kg	0.703	0.335	1	A
Methoxychlor	ND		ug/kg	3.16	0.984	1	A
Toxaphene	ND		ug/kg	31.6	8.86	1	A
cis-Chlordane	ND		ug/kg	2.11	0.588	1	A
trans-Chlordane	ND		ug/kg	2.11	0.557	1	A
Chlordane	ND		ug/kg	13.7	5.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	71		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	68		30-150	A

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-05
 Client ID: SB-IRM2-105-SURF
 Sample Location: NEW YORK
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 11/29/15 21:51
 Analyst: KE
 Percent Solids: 80%

Date Collected: 11/25/15 13:20
 Date Received: 11/25/15
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 11/27/15 10:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.89	0.370	1	A
Lindane	ND		ug/kg	0.787	0.352	1	A
Alpha-BHC	ND		ug/kg	0.787	0.223	1	A
Beta-BHC	ND		ug/kg	1.89	0.716	1	A
Heptachlor	ND		ug/kg	0.944	0.423	1	A
Aldrin	ND		ug/kg	1.89	0.665	1	A
Heptachlor epoxide	ND		ug/kg	3.54	1.06	1	A
Endrin	ND		ug/kg	0.787	0.322	1	A
Endrin aldehyde	ND		ug/kg	2.36	0.826	1	A
Endrin ketone	ND		ug/kg	1.89	0.486	1	A
Dieldrin	ND		ug/kg	1.18	0.590	1	A
4,4'-DDE	ND		ug/kg	1.89	0.437	1	A
4,4'-DDD	ND		ug/kg	1.89	0.673	1	A
4,4'-DDT	ND		ug/kg	3.54	1.52	1	A
Endosulfan I	ND		ug/kg	1.89	0.446	1	A
Endosulfan II	ND		ug/kg	1.89	0.631	1	A
Endosulfan sulfate	ND		ug/kg	0.787	0.374	1	A
Methoxychlor	ND		ug/kg	3.54	1.10	1	A
Toxaphene	ND		ug/kg	35.4	9.91	1	A
cis-Chlordane	ND		ug/kg	2.36	0.658	1	A
trans-Chlordane	ND		ug/kg	2.36	0.623	1	A
Chlordane	ND		ug/kg	15.3	6.25	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	92		30-150	A

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 11/29/15 17:34
 Analyst: KE

Extraction Method: EPA 3546
 Extraction Date: 11/27/15 10:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG844657-1						
Delta-BHC	ND		ug/kg	1.51	0.296	A
Lindane	ND		ug/kg	0.630	0.281	A
Alpha-BHC	ND		ug/kg	0.630	0.179	A
Beta-BHC	ND		ug/kg	1.51	0.573	A
Heptachlor	ND		ug/kg	0.756	0.339	A
Aldrin	ND		ug/kg	1.51	0.532	A
Heptachlor epoxide	ND		ug/kg	2.83	0.850	A
Endrin	ND		ug/kg	0.630	0.258	A
Endrin aldehyde	ND		ug/kg	1.89	0.661	A
Endrin ketone	ND		ug/kg	1.51	0.389	A
Dieldrin	ND		ug/kg	0.944	0.472	A
4,4'-DDE	ND		ug/kg	1.51	0.349	A
4,4'-DDD	ND		ug/kg	1.51	0.539	A
4,4'-DDT	ND		ug/kg	2.83	1.22	A
Endosulfan I	ND		ug/kg	1.51	0.357	A
Endosulfan II	ND		ug/kg	1.51	0.505	A
Endosulfan sulfate	ND		ug/kg	0.630	0.300	A
Methoxychlor	ND		ug/kg	2.83	0.882	A
Toxaphene	ND		ug/kg	28.3	7.93	A
cis-Chlordane	ND		ug/kg	1.89	0.526	A
trans-Chlordane	ND		ug/kg	1.89	0.499	A
Chlordane	ND		ug/kg	12.3	5.01	A

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 11/29/15 17:34
 Analyst: KE

Extraction Method: EPA 3546
 Extraction Date: 11/27/15 10:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 11/28/15

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG844657-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	78		30-150	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG844657-2 WG844657-3									
Delta-BHC	58		58		30-150	0		30	A
Lindane	61		60		30-150	2		30	A
Alpha-BHC	61		59		30-150	3		30	A
Beta-BHC	62		62		30-150	0		30	A
Heptachlor	73		72		30-150	1		30	A
Aldrin	72		71		30-150	1		30	A
Heptachlor epoxide	67		66		30-150	2		30	A
Endrin	79		81		30-150	3		30	A
Endrin aldehyde	55		55		30-150	0		30	A
Endrin ketone	69		69		30-150	0		30	A
Dieldrin	76		76		30-150	0		30	A
4,4'-DDE	66		65		30-150	2		30	A
4,4'-DDD	75		77		30-150	3		30	A
4,4'-DDT	75		75		30-150	0		30	A
Endosulfan I	71		71		30-150	0		30	A
Endosulfan II	73		76		30-150	4		30	A
Endosulfan sulfate	66		65		30-150	2		30	A
Methoxychlor	74		74		30-150	0		30	A
cis-Chlordane	67		70		30-150	4		30	A
trans-Chlordane	72		71		30-150	1		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG844657-2 WG844657-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		66		30-150	B
Decachlorobiphenyl	82		80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		79		30-150	A
Decachlorobiphenyl	81		78		30-150	A

METALS

Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-01

Date Collected: 11/25/15 12:50

Client ID: SB-IRM2-101-SURF

Date Received: 11/25/15

Sample Location: NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	17		mg/kg	0.45	0.09	1	11/26/15 06:11	11/27/15 17:56	EPA 3050B	1,6010C	JH
Barium, Total	74		mg/kg	0.45	0.14	1	11/26/15 06:11	11/27/15 17:56	EPA 3050B	1,6010C	JH
Beryllium, Total	0.43		mg/kg	0.23	0.05	1	11/26/15 06:11	11/27/15 17:56	EPA 3050B	1,6010C	JH
Cadmium, Total	0.46		mg/kg	0.45	0.03	1	11/26/15 06:11	11/27/15 17:56	EPA 3050B	1,6010C	JH
Chromium, Total	14		mg/kg	0.45	0.09	1	11/26/15 06:11	11/27/15 17:56	EPA 3050B	1,6010C	JH
Copper, Total	44		mg/kg	0.45	0.09	1	11/26/15 06:11	11/27/15 17:56	EPA 3050B	1,6010C	JH
Lead, Total	28		mg/kg	2.3	0.09	1	11/26/15 06:11	11/27/15 17:56	EPA 3050B	1,6010C	JH
Manganese, Total	630		mg/kg	0.45	0.09	1	11/26/15 06:11	11/27/15 17:56	EPA 3050B	1,6010C	JH
Mercury, Total	0.070	J	mg/kg	0.072	0.015	1	11/26/15 08:40	12/01/15 16:00	EPA 7471B	1,7471B	DB
Nickel, Total	24		mg/kg	1.1	0.18	1	11/26/15 06:11	11/27/15 17:56	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.90	0.14	1	11/26/15 06:11	11/27/15 17:56	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.45	0.09	1	11/26/15 06:11	11/27/15 17:56	EPA 3050B	1,6010C	JH
Zinc, Total	220		mg/kg	2.3	0.32	1	11/26/15 06:11	11/27/15 17:56	EPA 3050B	1,6010C	JH



Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-02
 Client ID: SB-IRM2-102-SURF
 Sample Location: NEW YORK
 Matrix: Soil
 Percent Solids: 91%

Date Collected: 11/25/15 12:56
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	12		mg/kg	0.44	0.09	1	11/26/15 06:11	11/27/15 18:00	EPA 3050B	1,6010C	JH
Barium, Total	39		mg/kg	0.44	0.13	1	11/26/15 06:11	11/27/15 18:00	EPA 3050B	1,6010C	JH
Beryllium, Total	0.40		mg/kg	0.22	0.04	1	11/26/15 06:11	11/27/15 18:00	EPA 3050B	1,6010C	JH
Cadmium, Total	0.17	J	mg/kg	0.44	0.03	1	11/26/15 06:11	11/27/15 18:00	EPA 3050B	1,6010C	JH
Chromium, Total	13		mg/kg	0.44	0.09	1	11/26/15 06:11	11/27/15 18:00	EPA 3050B	1,6010C	JH
Copper, Total	48		mg/kg	0.44	0.09	1	11/26/15 06:11	11/27/15 18:00	EPA 3050B	1,6010C	JH
Lead, Total	13		mg/kg	2.2	0.09	1	11/26/15 06:11	11/27/15 18:00	EPA 3050B	1,6010C	JH
Manganese, Total	520		mg/kg	0.44	0.09	1	11/26/15 06:11	11/27/15 18:00	EPA 3050B	1,6010C	JH
Mercury, Total	0.03	J	mg/kg	0.07	0.02	1	11/26/15 08:40	12/01/15 16:02	EPA 7471B	1,7471B	DB
Nickel, Total	25		mg/kg	1.1	0.17	1	11/26/15 06:11	11/27/15 18:00	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.87	0.13	1	11/26/15 06:11	11/27/15 18:00	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.44	0.09	1	11/26/15 06:11	11/27/15 18:00	EPA 3050B	1,6010C	JH
Zinc, Total	130		mg/kg	2.2	0.30	1	11/26/15 06:11	11/27/15 18:00	EPA 3050B	1,6010C	JH



Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-03

Date Collected: 11/25/15 13:05

Client ID: SB-IRM2-103-SURF

Date Received: 11/25/15

Sample Location: NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	11		mg/kg	0.44	0.09	1	11/26/15 06:11	11/27/15 18:05	EPA 3050B	1,6010C	JH
Barium, Total	42		mg/kg	0.44	0.13	1	11/26/15 06:11	11/27/15 18:05	EPA 3050B	1,6010C	JH
Beryllium, Total	0.36		mg/kg	0.22	0.04	1	11/26/15 06:11	11/27/15 18:05	EPA 3050B	1,6010C	JH
Cadmium, Total	1.1		mg/kg	0.44	0.03	1	11/26/15 06:11	11/27/15 18:05	EPA 3050B	1,6010C	JH
Chromium, Total	13		mg/kg	0.44	0.09	1	11/26/15 06:11	11/27/15 18:05	EPA 3050B	1,6010C	JH
Copper, Total	51		mg/kg	0.44	0.09	1	11/26/15 06:11	11/27/15 18:05	EPA 3050B	1,6010C	JH
Lead, Total	20		mg/kg	2.2	0.09	1	11/26/15 06:11	11/27/15 18:05	EPA 3050B	1,6010C	JH
Manganese, Total	620		mg/kg	0.44	0.09	1	11/26/15 06:11	11/27/15 18:05	EPA 3050B	1,6010C	JH
Mercury, Total	0.03	J	mg/kg	0.07	0.02	1	11/26/15 08:40	12/01/15 16:08	EPA 7471B	1,7471B	DB
Nickel, Total	23		mg/kg	1.1	0.18	1	11/26/15 06:11	11/27/15 18:05	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.88	0.13	1	11/26/15 06:11	11/27/15 18:05	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.44	0.09	1	11/26/15 06:11	11/27/15 18:05	EPA 3050B	1,6010C	JH
Zinc, Total	210		mg/kg	2.2	0.31	1	11/26/15 06:11	11/27/15 18:05	EPA 3050B	1,6010C	JH



Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-04
 Client ID: SB-IRM2-104-SURF
 Sample Location: NEW YORK
 Matrix: Soil
 Percent Solids: 91%

Date Collected: 11/25/15 13:12
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	13		mg/kg	0.43	0.09	1	11/26/15 06:11	11/27/15 18:30	EPA 3050B	1,6010C	JH
Barium, Total	47		mg/kg	0.43	0.13	1	11/26/15 06:11	11/27/15 18:30	EPA 3050B	1,6010C	JH
Beryllium, Total	0.40		mg/kg	0.22	0.04	1	11/26/15 06:11	11/27/15 18:30	EPA 3050B	1,6010C	JH
Cadmium, Total	0.08	J	mg/kg	0.43	0.03	1	11/26/15 06:11	11/27/15 18:30	EPA 3050B	1,6010C	JH
Chromium, Total	13		mg/kg	0.43	0.09	1	11/26/15 06:11	11/27/15 18:30	EPA 3050B	1,6010C	JH
Copper, Total	48		mg/kg	0.43	0.09	1	11/26/15 06:11	11/27/15 18:30	EPA 3050B	1,6010C	JH
Lead, Total	16		mg/kg	2.2	0.09	1	11/26/15 06:11	11/27/15 18:30	EPA 3050B	1,6010C	JH
Manganese, Total	660		mg/kg	0.43	0.09	1	11/26/15 06:11	11/27/15 18:30	EPA 3050B	1,6010C	JH
Mercury, Total	0.02	J	mg/kg	0.07	0.02	1	11/26/15 08:40	12/01/15 16:09	EPA 7471B	1,7471B	DB
Nickel, Total	22		mg/kg	1.1	0.17	1	11/26/15 06:11	11/27/15 18:30	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.87	0.13	1	11/26/15 06:11	11/27/15 18:30	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.43	0.09	1	11/26/15 06:11	11/27/15 18:30	EPA 3050B	1,6010C	JH
Zinc, Total	170		mg/kg	2.2	0.30	1	11/26/15 06:11	11/27/15 18:30	EPA 3050B	1,6010C	JH



Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-05
 Client ID: SB-IRM2-105-SURF
 Sample Location: NEW YORK
 Matrix: Soil
 Percent Solids: 80%

Date Collected: 11/25/15 13:20
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	13		mg/kg	0.49	0.10	1	11/26/15 06:11	11/27/15 18:34	EPA 3050B	1,6010C	JH
Barium, Total	55		mg/kg	0.49	0.14	1	11/26/15 06:11	11/27/15 18:34	EPA 3050B	1,6010C	JH
Beryllium, Total	0.49		mg/kg	0.24	0.05	1	11/26/15 06:11	11/27/15 18:34	EPA 3050B	1,6010C	JH
Cadmium, Total	0.12	J	mg/kg	0.49	0.03	1	11/26/15 06:11	11/27/15 18:34	EPA 3050B	1,6010C	JH
Chromium, Total	14		mg/kg	0.49	0.10	1	11/26/15 06:11	11/27/15 18:34	EPA 3050B	1,6010C	JH
Copper, Total	54		mg/kg	0.49	0.10	1	11/26/15 06:11	11/27/15 18:34	EPA 3050B	1,6010C	JH
Lead, Total	16		mg/kg	2.4	0.10	1	11/26/15 06:11	11/27/15 18:34	EPA 3050B	1,6010C	JH
Manganese, Total	1300		mg/kg	0.49	0.10	1	11/26/15 06:11	11/27/15 18:34	EPA 3050B	1,6010C	JH
Mercury, Total	0.04	J	mg/kg	0.08	0.02	1	11/26/15 08:40	12/01/15 16:11	EPA 7471B	1,7471B	DB
Nickel, Total	26		mg/kg	1.2	0.19	1	11/26/15 06:11	11/27/15 18:34	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.97	0.14	1	11/26/15 06:11	11/27/15 18:34	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.49	0.10	1	11/26/15 06:11	11/27/15 18:34	EPA 3050B	1,6010C	JH
Zinc, Total	170		mg/kg	2.4	0.34	1	11/26/15 06:11	11/27/15 18:34	EPA 3050B	1,6010C	JH



Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG844583-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	11/26/15 08:40	12/01/15 15:07	1,7471B	DB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG844588-1										
Arsenic, Total	0.17	J	mg/kg	0.40	0.08	1	11/26/15 06:11	11/27/15 15:58	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	11/26/15 06:11	11/27/15 15:58	1,6010C	JH
Beryllium, Total	0.07	J	mg/kg	0.20	0.04	1	11/26/15 06:11	11/27/15 15:58	1,6010C	JH
Cadmium, Total	0.07	J	mg/kg	0.40	0.03	1	11/26/15 06:11	11/27/15 15:58	1,6010C	JH
Chromium, Total	0.10	J	mg/kg	0.40	0.08	1	11/26/15 06:11	11/27/15 15:58	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	11/26/15 06:11	11/27/15 15:58	1,6010C	JH
Lead, Total	0.09	J	mg/kg	2.0	0.08	1	11/26/15 06:11	11/27/15 15:58	1,6010C	JH
Manganese, Total	0.29	J	mg/kg	0.40	0.08	1	11/26/15 06:11	11/27/15 15:58	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	11/26/15 06:11	11/27/15 15:58	1,6010C	JH
Selenium, Total	0.14	J	mg/kg	0.80	0.12	1	11/26/15 06:11	11/27/15 15:58	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	11/26/15 06:11	11/27/15 15:58	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	11/26/15 06:11	11/27/15 15:58	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG844583-2 SRM Lot Number: D088-540								
Mercury, Total	98		-		72-128	-		
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG844588-2 SRM Lot Number: D088-540								
Arsenic, Total	96		-		79-121	-		
Barium, Total	88		-		83-117	-		
Beryllium, Total	90		-		83-117	-		
Cadmium, Total	87		-		83-117	-		
Chromium, Total	88		-		80-120	-		
Copper, Total	90		-		81-118	-		
Lead, Total	86		-		81-117	-		
Manganese, Total	91		-		81-118	-		
Nickel, Total	89		-		83-117	-		
Selenium, Total	91		-		78-122	-		
Silver, Total	91		-		75-124	-		
Zinc, Total	88		-		82-118	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531228
Report Date: 12/02/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG844583-4 QC Sample: L1530879-01 Client ID: MS Sample												
Mercury, Total	1.1	0.162	1.5	248	Q	-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG844588-4 QC Sample: L1531140-01 Client ID: MS Sample												
Arsenic, Total	9.8	11.7	21	96		-	-		75-125	-		20
Barium, Total	89.	195	280	98		-	-		75-125	-		20
Beryllium, Total	0.83	4.88	5.4	94		-	-		75-125	-		20
Cadmium, Total	ND	4.98	4.8	96		-	-		75-125	-		20
Chromium, Total	27.	19.5	44	87		-	-		75-125	-		20
Copper, Total	37.	24.4	62	102		-	-		75-125	-		20
Lead, Total	16.	49.8	67	102		-	-		75-125	-		20
Manganese, Total	700	48.8	730	61	Q	-	-		75-125	-		20
Nickel, Total	34.	48.8	75	84		-	-		75-125	-		20
Selenium, Total	ND	11.7	11	94		-	-		75-125	-		20
Silver, Total	ND	29.3	30	102		-	-		75-125	-		20
Zinc, Total	79.	48.8	130	104		-	-		75-125	-		20

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1531228
Report Date: 12/02/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG844583-3 QC Sample: L1530879-01 Client ID: DUP Sample						
Mercury, Total	1.1	1.0	mg/kg	10		20
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG844588-3 QC Sample: L1531140-01 Client ID: DUP Sample						
Arsenic, Total	9.8	10	mg/kg	2		20
Barium, Total	89.	97	mg/kg	9		20
Beryllium, Total	0.83	0.89	mg/kg	7		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	27.	28	mg/kg	4		20
Copper, Total	37.	39	mg/kg	5		20
Lead, Total	16.	18	mg/kg	12		20
Manganese, Total	700	740	mg/kg	6		20
Nickel, Total	34.	35	mg/kg	3		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Zinc, Total	79.	86	mg/kg	8		20

INORGANICS & MISCELLANEOUS

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-01
 Client ID: SB-IRM2-101-SURF
 Sample Location: NEW YORK
 Matrix: Soil

Date Collected: 11/25/15 12:50
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	14		mg/kg	0.91	0.91	1	-	12/01/15 15:40	107,-	
Solids, Total	87.8		%	0.100	NA	1	-	11/26/15 02:47	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.1	0.19	1	11/29/15 20:30	11/30/15 14:06	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.91	0.18	1	11/30/15 16:45	12/01/15 15:40	1,7196A	AL



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-02
 Client ID: SB-IRM2-102-SURF
 Sample Location: NEW YORK
 Matrix: Soil

Date Collected: 11/25/15 12:56
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	13		mg/kg	0.88	0.88	1	-	12/01/15 15:41	107,-	
Solids, Total	91.3		%	0.100	NA	1	-	11/26/15 02:47	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.1	0.18	1	11/29/15 20:30	11/30/15 14:09	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.88	0.18	1	11/30/15 16:45	12/01/15 15:41	1,7196A	AL



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-03

Client ID: SB-IRM2-103-SURF

Sample Location: NEW YORK

Matrix: Soil

Date Collected: 11/25/15 13:05

Date Received: 11/25/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	13		mg/kg	0.89	0.89	1	-	12/01/15 15:42	107,-	
Solids, Total	89.6		%	0.100	NA	1	-	11/26/15 02:47	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.0	0.17	1	11/29/15 20:30	11/30/15 14:09	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.89	0.18	1	11/30/15 16:45	12/01/15 15:42	1,7196A	AL



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-04
 Client ID: SB-IRM2-104-SURF
 Sample Location: NEW YORK
 Matrix: Soil

Date Collected: 11/25/15 13:12
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	13		mg/kg	0.88	0.88	1	-	12/01/15 15:43	107,-	
Solids, Total	91.1		%	0.100	NA	1	-	11/26/15 02:47	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.0	0.17	1	11/29/15 20:30	11/30/15 14:10	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.88	0.18	1	11/30/15 16:45	12/01/15 15:43	1,7196A	AL



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

SAMPLE RESULTS

Lab ID: L1531228-05
 Client ID: SB-IRM2-105-SURF
 Sample Location: NEW YORK
 Matrix: Soil

Date Collected: 11/25/15 13:20
 Date Received: 11/25/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	14	J	mg/kg	1.0	1.0	1	-	12/01/15 15:44	107,-	
Solids, Total	80.2		%	0.100	NA	1	-	11/26/15 02:47	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.2	0.19	1	11/29/15 20:30	11/30/15 14:11	1,9010C/9012B	JO
Chromium, Hexavalent	0.29	J	mg/kg	1.0	0.20	1	11/30/15 16:45	12/01/15 15:44	1,7196A	AL



Project Name: IRM SAMPLING

Lab Number: L1531228

Project Number: 34201-313

Report Date: 12/02/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG844914-1										
Cyanide, Total	ND		mg/kg	0.93	0.15	1	11/29/15 20:30	11/30/15 13:58	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG845172-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	11/30/15 16:45	12/01/15 15:37	1,7196A	AL

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG844914-2 WG844914-3								
Cyanide, Total	88		104		80-120	17		35
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG845172-2								
Chromium, Hexavalent	82		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531228
Report Date: 12/02/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG844914-4 WG844914-5 QC Sample: L1531228-01 Client ID: SB-IRM2-101-SURF												
Cyanide, Total	ND	11	9.1	82		9.0	86		65-135	1		35
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG845172-4 QC Sample: L1531228-04 Client ID: SB-IRM2-104-SURF												
Chromium, Hexavalent	ND	1100	1100	100		-	-		75-125	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531228
Report Date: 12/02/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG844568-1 QC Sample: L1531218-01 Client ID: DUP Sample						
Solids, Total	83.4	82.5	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG845172-6 QC Sample: L1531228-04 Client ID: SB-IRM2-104-SURF						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 11/26/2015 00:44

Cooler Information Custody Seal

Cooler

B Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1531228-01A	Vial MeOH preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-01B	Vial water preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-01C	Vial water preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-01D	Plastic 2oz unpreserved for TS	B	N/A	4.0	Y	Absent	TS(7)
L1531228-01E	Glass 60mL/2oz unpreserved	B	N/A	4.0	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531228-01F	Glass 250ml/8oz unpreserved	B	N/A	4.0	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531228-02A	Vial MeOH preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-02B	Vial water preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-02C	Vial water preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-02D	Plastic 2oz unpreserved for TS	B	N/A	4.0	Y	Absent	TS(7)
L1531228-02E	Glass 60mL/2oz unpreserved	B	N/A	4.0	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1531228-02F	Glass 250ml/8oz unpreserved	B	N/A	4.0	Y	Absent	BE-Ti(180),NYTCL-8270(14),TCN-9010(14),AS-Ti(180),BA-Ti(180),AG-Ti(180),CR-Ti(180),NI-Ti(180),TRICR-CALC(30),CU-Ti(180),PB-Ti(180),SE-Ti(180),ZN-Ti(180),NYTCL-8081(14),HG-T(28),MN-Ti(180),CD-Ti(180),HEXCR-7196(30)
L1531228-03A	Vial MeOH preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-03B	Vial water preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-03C	Vial water preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-03D	Plastic 2oz unpreserved for TS	B	N/A	4.0	Y	Absent	TS(7)
L1531228-03E	Glass 60mL/2oz unpreserved	B	N/A	4.0	Y	Absent	BE-Ti(180),NYTCL-8270(14),TCN-9010(14),AS-Ti(180),BA-Ti(180),AG-Ti(180),CR-Ti(180),NI-Ti(180),TRICR-CALC(30),CU-Ti(180),PB-Ti(180),SE-Ti(180),ZN-Ti(180),NYTCL-8081(14),HG-T(28),MN-Ti(180),CD-Ti(180),HEXCR-7196(30)
L1531228-03F	Glass 250ml/8oz unpreserved	B	N/A	4.0	Y	Absent	BE-Ti(180),NYTCL-8270(14),TCN-9010(14),AS-Ti(180),BA-Ti(180),AG-Ti(180),CR-Ti(180),NI-Ti(180),TRICR-CALC(30),CU-Ti(180),PB-Ti(180),SE-Ti(180),ZN-Ti(180),NYTCL-8081(14),HG-T(28),MN-Ti(180),CD-Ti(180),HEXCR-7196(30)
L1531228-04A	Vial MeOH preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-04B	Vial water preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-04C	Vial water preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-04D	Plastic 2oz unpreserved for TS	B	N/A	4.0	Y	Absent	TS(7)
L1531228-04E	Glass 60mL/2oz unpreserved	B	N/A	4.0	Y	Absent	BE-Ti(180),NYTCL-8270(14),TCN-9010(14),AS-Ti(180),BA-Ti(180),AG-Ti(180),CR-Ti(180),NI-Ti(180),TRICR-CALC(30),CU-Ti(180),PB-Ti(180),SE-Ti(180),ZN-Ti(180),NYTCL-8081(14),HG-T(28),MN-Ti(180),CD-Ti(180),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531228

Report Date: 12/02/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1531228-04F	Glass 250ml/8oz unpreserved	B	N/A	4.0	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531228-05A	Vial MeOH preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-05B	Vial water preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-05C	Vial water preserved	B	N/A	4.0	Y	Absent	NYTCL-8260HLW(14)
L1531228-05D	Plastic 2oz unpreserved for TS	B	N/A	4.0	Y	Absent	TS(7)
L1531228-05E	Glass 60mL/2oz unpreserved	B	N/A	4.0	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531228-05F	Glass 250ml/8oz unpreserved	B	N/A	4.0	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531228
Report Date: 12/02/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers



Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531228
Report Date: 12/02/15

Data Qualifiers

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531228
Report Date: 12/02/15

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 107 Alpha Analytical - In-house calculation method.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 8260C: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; Iodomethane (methyl iodide) (soil); Methyl methacrylate (soil); Azobenzene.

EPA 8270D: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

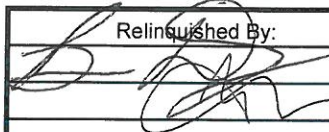
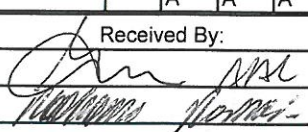
EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

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

	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 1		Date Rec'd in Lab <u>11/25/15</u>					ALPHA Job # <u>61531208</u>									
			Project Information					Deliverables					Billing Information						
			Project Name: IRM Sampling Project Location: New York Project # <u>34201-313</u> (Use Project name as Project #) ☐					☐ ASP-A ☐ ASP-B ☐ EQulS (1 File) ☒ EQulS (4 File) ☐ Other					☐ Same as Client Info PO # <u>15555</u>						
Client Information					Regulatory Requirement					Disposal Site Information									
Client: Haley & Aldrich, Inc. Address: 200 Town Centre Drive Suite 102 Rochester, NY 14623 Phone: 585-321-4235 Fax: Email: Bdrayn@haleyaldrich.com					Project Manager: Gina Hall ALPHAQuote #: Turn-Around Time Standard ☐ Due Date: <u>12/2/2015</u> Rush (only if pre approved) ☒ # of Days: <u>3</u>					☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge					Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other: NA				
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:					ANALYSIS					Sample Filtration									
Please specify Metals or TAL.					TCL VOC 8260/5035 TCL SVOC TCL Pest TCN Pt 375 Metals					☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)									
															Sample Specific Comments				
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials														
		Date	Time																
<u>31208-01</u>	SB-IRM2-101-SURF	<u>11/25/15</u>	<u>1250</u>	Soil	BD	X	X	X	X	X							5		
	SB-IRM2-101-SUBS			Soil	BD	X	X	X	X	X							5		
<u>02</u>	SB-IRM2-102-SURF	<u>11/25/15</u>	<u>1256</u>	Soil	BD	X	X	X	X	X							5		
	SB-IRM2-102-SUBS			Soil	BD	X	X	X	X	X							5		
<u>03</u>	SB-IRM2-103-SURF	<u>11/25/15</u>	<u>1305</u>	Soil	BD	X	X	X	X	X							5		
<u>04</u>	SB-IRM2-104-SURF	<u>11/25/15</u>	<u>1312</u>	Soil	BD	X	X	X	X	X							5		
<u>05</u>	SB-IRM2-105-SURF	<u>11/25/15</u>	<u>1320</u>	Soil	BD	X	X	X	X	X							5		
Preservative Code: A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH O = Other Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle Westboro: Certification No: MA935 Mansfield: Certification No: MA015																			
						Container Type O G G G G					Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <u>TERMS & CONDITIONS.</u>								
						Preservative A A A A													
Relinquished By: 						Date/Time <u>11/25/15 1615</u> <u>11/25/15 2230</u>		Received By: 		Date/Time <u>11/25/15 1415</u> <u>11/25/15 2230</u>									



ANALYTICAL REPORT

Lab Number:	L1531346
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623-4264
ATTN:	Benjamin Drayn
Phone:	(585) 321-4245
Project Name:	IRM SAMPLING
Project Number:	34201-313
Report Date:	12/01/15

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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



Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531346
Report Date: 12/01/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1531346-01	SB-IRM2-103-SUBS	SOIL	NEW YORK	11/30/15 16:20	11/30/15
L1531346-02	SB-IRM2-104-SUBS	SOIL	NEW YORK	11/30/15 16:30	11/30/15
L1531346-03	SB-IRM2-105-SUBS	SOIL	NEW YORK	11/30/15 16:40	11/30/15
L1531346-04	SB-IRM2-101-SUBS	SOIL	NEW YORK	11/30/15 15:40	11/30/15
L1531346-05	SB-IRM2-102-SUBS	SOIL	NEW YORK	11/30/15 16:10	11/30/15
L1531346-06	3179-113015-0002	SOIL	NEW YORK	11/30/15 00:00	11/30/15

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531346
Report Date: 12/01/15

Case Narrative

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

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

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

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

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531346
Report Date: 12/01/15

Case Narrative (continued)

Report Submission

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

Semivolatile Organics

The WG845301-4/-5 MS/MSD recoveries, performed on L1531346-05, are below the acceptance criteria for 2,4-dinitrophenol (0%/0%) due to the concentration of this compound falling below the reported detection limit.

Metals

The WG845305-3/-4 MS/MSD recoveries, performed on L1531346-05, are outside the acceptance criteria for arsenic (MSD 148%), cadmium (70%/69%), chromium (64%/71%), copper (71%/68%), lead (69%/72%), nickel (MS 64%) and zinc (MS 64%). A post digestion spike was performed and yielded unacceptable recoveries for arsenic (75%), cadmium (65%), chromium (63%), copper (66%), lead (64%), nickel (59%) and zinc (40%). This has been attributed to sample matrix. In addition, the MS/MSD RPD for arsenic (33%) is above the acceptance criteria.

The WG845305-3/-4 MS/MSD recoveries for manganese (214%/73%), performed on L1531346-05, do not apply because the sample concentration is greater than four times the spike amount added.

The WG845391-3/-4 MS/MSD recoveries, performed on L1531346-05, are outside the acceptance criteria for mercury (129%/123%). A post digestion spike was performed and was within acceptance criteria.

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

Authorized Signature:



Kelly Stenstrom

Title: Technical Director/Representative

Date: 12/01/15

ORGANICS

VOLATILES

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-01
 Client ID: SB-IRM2-103-SUBS
 Sample Location: NEW YORK
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/01/15 10:14
 Analyst: MV
 Percent Solids: 95%

Date Collected: 11/30/15 16:20
 Date Received: 11/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.6	1.0	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.08	1
Chloroform	ND		ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.96	0.20	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.22	1
Dibromochloromethane	ND		ug/kg	0.96	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.96	0.13	1
Chlorobenzene	ND		ug/kg	0.96	0.33	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.37	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	0.96	0.10	1
Bromodichloromethane	ND		ug/kg	0.96	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.96	0.11	1
Bromoform	ND		ug/kg	3.8	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.96	0.10	1
Benzene	ND		ug/kg	0.96	0.11	1
Toluene	ND		ug/kg	1.4	0.19	1
Ethylbenzene	ND		ug/kg	0.96	0.12	1
Chloromethane	ND		ug/kg	4.8	0.28	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.11	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Trichloroethene	ND		ug/kg	0.96	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	4.8	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	4.8	0.13	1

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-01
 Client ID: SB-IRM2-103-SUBS
 Sample Location: NEW YORK

Date Collected: 11/30/15 16:20
 Date Received: 11/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.9	0.08	1
p/m-Xylene	ND		ug/kg	1.9	0.19	1
o-Xylene	ND		ug/kg	1.9	0.16	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.14	1
Styrene	ND		ug/kg	1.9	0.38	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.18	1
Acetone	5.2	J	ug/kg	9.6	0.99	1
Carbon disulfide	ND		ug/kg	9.6	1.0	1
2-Butanone	ND		ug/kg	9.6	0.26	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	0.23	1
2-Hexanone	ND		ug/kg	9.6	0.64	1
Bromochloromethane	ND		ug/kg	4.8	0.26	1
1,2-Dibromoethane	ND		ug/kg	3.8	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	0.38	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.8	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.8	0.17	1
Methyl Acetate	ND		ug/kg	19	0.26	1
Cyclohexane	ND		ug/kg	19	0.14	1
1,4-Dioxane	ND		ug/kg	96	14.	1
Freon-113	ND		ug/kg	19	0.26	1
Methyl cyclohexane	ND		ug/kg	3.8	0.15	1

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

Project Name: IRM SAMPLING**Lab Number:** L1531346**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531346-02
Client ID: SB-IRM2-104-SUBS
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/01/15 10:40
Analyst: MV
Percent Solids: 90%

Date Collected: 11/30/15 16:30
Date Received: 11/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	1.6	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.12	1
Chloroform	ND		ug/kg	2.2	0.54	1
Carbon tetrachloride	ND		ug/kg	1.4	0.30	1
1,2-Dichloropropane	ND		ug/kg	5.1	0.33	1
Dibromochloromethane	ND		ug/kg	1.4	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	0.44	1
Tetrachloroethene	ND		ug/kg	1.4	0.20	1
Chlorobenzene	ND		ug/kg	1.4	0.51	1
Trichlorofluoromethane	ND		ug/kg	7.3	0.56	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.16	1
Bromodichloromethane	ND		ug/kg	1.4	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
Bromoform	ND		ug/kg	5.8	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.15	1
Benzene	ND		ug/kg	1.4	0.17	1
Toluene	ND		ug/kg	2.2	0.28	1
Ethylbenzene	ND		ug/kg	1.4	0.18	1
Chloromethane	ND		ug/kg	7.3	0.43	1
Bromomethane	ND		ug/kg	2.9	0.49	1
Vinyl chloride	ND		ug/kg	2.9	0.17	1
Chloroethane	ND		ug/kg	2.9	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.38	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.31	1
Trichloroethene	ND		ug/kg	1.4	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	7.3	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	7.3	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	7.3	0.20	1

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-02
 Client ID: SB-IRM2-104-SUBS
 Sample Location: NEW YORK

Date Collected: 11/30/15 16:30
 Date Received: 11/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.9	0.12	1
p/m-Xylene	ND		ug/kg	2.9	0.29	1
o-Xylene	ND		ug/kg	2.9	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.21	1
Styrene	ND		ug/kg	2.9	0.58	1
Dichlorodifluoromethane	ND		ug/kg	14	0.28	1
Acetone	21		ug/kg	14	1.5	1
Carbon disulfide	ND		ug/kg	14	1.6	1
2-Butanone	ND		ug/kg	14	0.40	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.36	1
2-Hexanone	ND		ug/kg	14	0.97	1
Bromochloromethane	ND		ug/kg	7.3	0.40	1
1,2-Dibromoethane	ND		ug/kg	5.8	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.3	0.58	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.3	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.3	0.26	1
Methyl Acetate	ND		ug/kg	29	0.39	1
Cyclohexane	ND		ug/kg	29	0.21	1
1,4-Dioxane	ND		ug/kg	140	21.	1
Freon-113	ND		ug/kg	29	0.40	1
Methyl cyclohexane	ND		ug/kg	5.8	0.22	1

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

Project Name: IRM SAMPLING**Lab Number:** L1531346**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531346-03
Client ID: SB-IRM2-105-SUBS
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/01/15 11:06
Analyst: MV
Percent Solids: 92%

Date Collected: 11/30/15 16:40
Date Received: 11/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.2	0.91	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.07	1
Chloroform	ND		ug/kg	1.2	0.30	1
Carbon tetrachloride	ND		ug/kg	0.82	0.17	1
1,2-Dichloropropane	ND		ug/kg	2.9	0.19	1
Dibromochloromethane	ND		ug/kg	0.82	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.25	1
Tetrachloroethene	ND		ug/kg	0.82	0.12	1
Chlorobenzene	ND		ug/kg	0.82	0.29	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.32	1
1,2-Dichloroethane	ND		ug/kg	0.82	0.09	1
1,1,1-Trichloroethane	ND		ug/kg	0.82	0.09	1
Bromodichloromethane	ND		ug/kg	0.82	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	0.82	0.10	1
cis-1,3-Dichloropropene	ND		ug/kg	0.82	0.10	1
Bromoform	ND		ug/kg	3.3	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.82	0.08	1
Benzene	ND		ug/kg	0.82	0.10	1
Toluene	ND		ug/kg	1.2	0.16	1
Ethylbenzene	ND		ug/kg	0.82	0.10	1
Chloromethane	ND		ug/kg	4.1	0.24	1
Bromomethane	ND		ug/kg	1.6	0.28	1
Vinyl chloride	ND		ug/kg	1.6	0.10	1
Chloroethane	ND		ug/kg	1.6	0.26	1
1,1-Dichloroethene	ND		ug/kg	0.82	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Trichloroethene	ND		ug/kg	0.82	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	4.1	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	4.1	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	4.1	0.11	1

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-03
 Client ID: SB-IRM2-105-SUBS
 Sample Location: NEW YORK

Date Collected: 11/30/15 16:40
 Date Received: 11/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.6	0.07	1
p/m-Xylene	ND		ug/kg	1.6	0.16	1
o-Xylene	ND		ug/kg	1.6	0.14	1
cis-1,2-Dichloroethene	ND		ug/kg	0.82	0.12	1
Styrene	ND		ug/kg	1.6	0.33	1
Dichlorodifluoromethane	ND		ug/kg	8.2	0.16	1
Acetone	20		ug/kg	8.2	0.85	1
Carbon disulfide	ND		ug/kg	8.2	0.91	1
2-Butanone	ND		ug/kg	8.2	0.22	1
4-Methyl-2-pentanone	ND		ug/kg	8.2	0.20	1
2-Hexanone	ND		ug/kg	8.2	0.55	1
Bromochloromethane	ND		ug/kg	4.1	0.23	1
1,2-Dibromoethane	ND		ug/kg	3.3	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	0.33	1
Isopropylbenzene	ND		ug/kg	0.82	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.1	0.12	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.1	0.15	1
Methyl Acetate	ND		ug/kg	16	0.22	1
Cyclohexane	ND		ug/kg	16	0.12	1
1,4-Dioxane	ND		ug/kg	82	12.	1
Freon-113	ND		ug/kg	16	0.22	1
Methyl cyclohexane	ND		ug/kg	3.3	0.13	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	96		70-130

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-04
 Client ID: SB-IRM2-101-SUBS
 Sample Location: NEW YORK
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/01/15 11:32
 Analyst: MV
 Percent Solids: 90%

Date Collected: 11/30/15 15:40
 Date Received: 11/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	1.1	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	0.99	0.21	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.22	1
Dibromochloromethane	ND		ug/kg	0.99	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30	1
Tetrachloroethene	ND		ug/kg	0.99	0.14	1
Chlorobenzene	ND		ug/kg	0.99	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.11	1
Bromodichloromethane	ND		ug/kg	0.99	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.12	1
Bromoform	ND		ug/kg	4.0	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.10	1
Benzene	ND		ug/kg	0.99	0.12	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.99	0.13	1
Chloromethane	ND		ug/kg	4.9	0.29	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.12	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21	1
Trichloroethene	ND		ug/kg	0.99	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.14	1

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-04
 Client ID: SB-IRM2-101-SUBS
 Sample Location: NEW YORK

Date Collected: 11/30/15 15:40
 Date Received: 11/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.0	0.08	1
p/m-Xylene	ND		ug/kg	2.0	0.20	1
o-Xylene	ND		ug/kg	2.0	0.17	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.14	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.19	1
Acetone	ND		ug/kg	9.9	1.0	1
Carbon disulfide	ND		ug/kg	9.9	1.1	1
2-Butanone	ND		ug/kg	9.9	0.27	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
2-Hexanone	ND		ug/kg	9.9	0.66	1
Bromochloromethane	ND		ug/kg	4.9	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Isopropylbenzene	ND		ug/kg	0.99	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.15	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.18	1
Methyl Acetate	ND		ug/kg	20	0.27	1
Cyclohexane	ND		ug/kg	20	0.14	1
1,4-Dioxane	ND		ug/kg	99	14.	1
Freon-113	ND		ug/kg	20	0.27	1
Methyl cyclohexane	ND		ug/kg	4.0	0.15	1

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

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-05
 Client ID: SB-IRM2-102-SUBS
 Sample Location: NEW YORK
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 12/01/15 12:24
 Analyst: MV
 Percent Solids: 94%

Date Collected: 11/30/15 16:10
 Date Received: 11/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.8	0.97	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.08	1
Chloroform	ND		ug/kg	1.3	0.33	1
Carbon tetrachloride	ND		ug/kg	0.88	0.18	1
1,2-Dichloropropane	ND		ug/kg	3.1	0.20	1
Dibromochloromethane	ND		ug/kg	0.88	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.27	1
Tetrachloroethene	ND		ug/kg	0.88	0.12	1
Chlorobenzene	ND		ug/kg	0.88	0.31	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.34	1
1,2-Dichloroethane	ND		ug/kg	0.88	0.10	1
1,1,1-Trichloroethane	ND		ug/kg	0.88	0.10	1
Bromodichloromethane	ND		ug/kg	0.88	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	0.11	1
cis-1,3-Dichloropropene	ND		ug/kg	0.88	0.10	1
Bromoform	ND		ug/kg	3.5	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.88	0.09	1
Benzene	ND		ug/kg	0.88	0.10	1
Toluene	ND		ug/kg	1.3	0.17	1
Ethylbenzene	ND		ug/kg	0.88	0.11	1
Chloromethane	ND		ug/kg	4.4	0.26	1
Bromomethane	ND		ug/kg	1.8	0.30	1
Vinyl chloride	ND		ug/kg	1.8	0.10	1
Chloroethane	ND		ug/kg	1.8	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.88	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.19	1
Trichloroethene	ND		ug/kg	0.88	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	4.4	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	4.4	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	4.4	0.12	1

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-05
 Client ID: SB-IRM2-102-SUBS
 Sample Location: NEW YORK

Date Collected: 11/30/15 16:10
 Date Received: 11/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.8	0.07	1
p/m-Xylene	ND		ug/kg	1.8	0.17	1
o-Xylene	ND		ug/kg	1.8	0.15	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	0.13	1
Styrene	ND		ug/kg	1.8	0.35	1
Dichlorodifluoromethane	ND		ug/kg	8.8	0.17	1
Acetone	8.8		ug/kg	8.8	0.91	1
Carbon disulfide	ND		ug/kg	8.8	0.97	1
2-Butanone	ND		ug/kg	8.8	0.24	1
4-Methyl-2-pentanone	ND		ug/kg	8.8	0.22	1
2-Hexanone	ND		ug/kg	8.8	0.59	1
Bromochloromethane	ND		ug/kg	4.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	3.5	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.4	0.35	1
Isopropylbenzene	ND		ug/kg	0.88	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.4	0.13	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.4	0.16	1
Methyl Acetate	ND		ug/kg	18	0.24	1
Cyclohexane	ND		ug/kg	18	0.13	1
1,4-Dioxane	ND		ug/kg	88	13.	1
Freon-113	ND		ug/kg	18	0.24	1
Methyl cyclohexane	ND		ug/kg	3.5	0.14	1

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

Project Name: IRM SAMPLING**Lab Number:** L1531346**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531346-06
Client ID: 3179-113015-0002
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/01/15 11:58
Analyst: MV
Percent Solids: 89%

Date Collected: 11/30/15 00:00
Date Received: 11/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.0	0.22	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.15	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.40	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.12	1
Bromodichloromethane	ND		ug/kg	1.0	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10	1
Benzene	ND		ug/kg	1.0	0.12	1
Toluene	ND		ug/kg	1.6	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.13	1
Chloromethane	ND		ug/kg	5.2	0.31	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.12	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.22	1
Trichloroethene	ND		ug/kg	1.0	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.14	1

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-06
 Client ID: 3179-113015-0002
 Sample Location: NEW YORK

Date Collected: 11/30/15 00:00
 Date Received: 11/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.1	0.09	1
p/m-Xylene	ND		ug/kg	2.1	0.21	1
o-Xylene	ND		ug/kg	2.1	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.20	1
Acetone	ND		ug/kg	10	1.1	1
Carbon disulfide	ND		ug/kg	10	1.2	1
2-Butanone	ND		ug/kg	10	0.28	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
2-Hexanone	ND		ug/kg	10	0.70	1
Bromochloromethane	ND		ug/kg	5.2	0.29	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.41	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.15	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.19	1
Methyl Acetate	ND		ug/kg	21	0.28	1
Cyclohexane	ND		ug/kg	21	0.15	1
1,4-Dioxane	ND		ug/kg	100	15.	1
Freon-113	ND		ug/kg	21	0.29	1
Methyl cyclohexane	ND		ug/kg	4.2	0.16	1

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

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 12/01/15 09:22

Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG845430-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 12/01/15 09:22
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG845430-3					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Project Name: IRM SAMPLING**Lab Number:** L1531346**Project Number:** 34201-313**Report Date:** 12/01/15**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 12/01/15 09:22

Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG845430-3					

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG845430-1 WG845430-2								
Methylene chloride	98		95		70-130	3		30
1,1-Dichloroethane	102		98		70-130	4		30
Chloroform	103		98		70-130	5		30
Carbon tetrachloride	110		103		70-130	7		30
1,2-Dichloropropane	98		95		70-130	3		30
Dibromochloromethane	107		102		70-130	5		30
2-Chloroethylvinyl ether	71		66	Q	70-130	7		30
1,1,2-Trichloroethane	108		101		70-130	7		30
Tetrachloroethene	120		110		70-130	9		30
Chlorobenzene	110		106		70-130	4		30
Trichlorofluoromethane	117		112		70-139	4		30
1,2-Dichloroethane	102		99		70-130	3		30
1,1,1-Trichloroethane	107		102		70-130	5		30
Bromodichloromethane	101		96		70-130	5		30
trans-1,3-Dichloropropene	109		103		70-130	6		30
cis-1,3-Dichloropropene	101		89		70-130	13		30
1,1-Dichloropropene	107		103		70-130	4		30
Bromoform	102		101		70-130	1		30
1,1,2,2-Tetrachloroethane	97		101		70-130	4		30
Benzene	102		97		70-130	5		30
Toluene	110		100		70-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG845430-1 WG845430-2								
Ethylbenzene	112		107		70-130	5		30
Chloromethane	98		96		52-130	2		30
Bromomethane	100		93		57-147	7		30
Vinyl chloride	106		103		67-130	3		30
Chloroethane	125		120		50-151	4		30
1,1-Dichloroethene	103		91		65-135	12		30
trans-1,2-Dichloroethene	102		99		70-130	3		30
Trichloroethene	108		102		70-130	6		30
1,2-Dichlorobenzene	116		111		70-130	4		30
1,3-Dichlorobenzene	118		114		70-130	3		30
1,4-Dichlorobenzene	117		112		70-130	4		30
Methyl tert butyl ether	90		87		66-130	3		30
p/m-Xylene	112		107		70-130	5		30
o-Xylene	108		103		70-130	5		30
cis-1,2-Dichloroethene	102		98		70-130	4		30
Dibromomethane	98		95		70-130	3		30
Styrene	109		105		70-130	4		30
Dichlorodifluoromethane	112		108		30-146	4		30
Acetone	85		84		54-140	1		30
Carbon disulfide	97		88		59-130	10		30
2-Butanone	91		90		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG845430-1 WG845430-2								
Vinyl acetate	90		90		70-130	0		30
4-Methyl-2-pentanone	91		89		70-130	2		30
1,2,3-Trichloropropane	103		102		68-130	1		30
2-Hexanone	92		93		70-130	1		30
Bromochloromethane	106		100		70-130	6		30
2,2-Dichloropropane	108		102		70-130	6		30
1,2-Dibromoethane	107		102		70-130	5		30
1,3-Dichloropropane	105		100		69-130	5		30
1,1,1,2-Tetrachloroethane	108		105		70-130	3		30
Bromobenzene	109		110		70-130	1		30
n-Butylbenzene	121		116		70-130	4		30
sec-Butylbenzene	118		112		70-130	5		30
tert-Butylbenzene	116		112		70-130	4		30
o-Chlorotoluene	111		113		70-130	2		30
p-Chlorotoluene	121		116		70-130	4		30
1,2-Dibromo-3-chloropropane	98		101		68-130	3		30
Hexachlorobutadiene	124		119		67-130	4		30
Isopropylbenzene	114		110		70-130	4		30
p-Isopropyltoluene	118		113		70-130	4		30
Naphthalene	105		104		70-130	1		30
Acrylonitrile	91		89		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG845430-1 WG845430-2								
Isopropyl Ether	95		91		66-130	4		30
tert-Butyl Alcohol	84		87		70-130	4		30
n-Propylbenzene	111		112		70-130	1		30
1,2,3-Trichlorobenzene	116		114		70-130	2		30
1,2,4-Trichlorobenzene	122		119		70-130	2		30
1,3,5-Trimethylbenzene	114		111		70-130	3		30
1,2,4-Trimethylbenzene	115		110		70-130	4		30
Methyl Acetate	92		98		51-146	6		30
Ethyl Acetate	85		90		70-130	6		30
Acrolein	120		122		70-130	2		30
Cyclohexane	108		102		59-142	6		30
1,4-Dioxane	81		77		65-136	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	112		103		50-139	8		30
p-Diethylbenzene	105		99		70-130	6		30
p-Ethyltoluene	99		98		70-130	1		30
1,2,4,5-Tetramethylbenzene	103		97		70-130	6		30
Tetrahydrofuran	86		80		66-130	7		30
Ethyl ether	99		95		67-130	4		30
trans-1,4-Dichloro-2-butene	97		98		70-130	1		30
Methyl cyclohexane	109		104		70-130	5		30
Ethyl-Tert-Butyl-Ether	94		90		70-130	4		30

Lab Control Sample Analysis Batch Quality Control

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG845430-1 WG845430-2								
Tertiary-Amyl Methyl Ether	92		90		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	104		100		70-130
4-Bromofluorobenzene	92		100		70-130
Dibromofluoromethane	94		95		70-130

SEMIVOLATILES

Project Name: IRM SAMPLING**Lab Number:** L1531346**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531346-04
Client ID: SB-IRM2-101-SUBS
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/01/15 11:10
Analyst: PS
Percent Solids: 90%

Date Collected: 11/30/15 15:40
Date Received: 11/30/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/01/15 02:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	41	J	ug/kg	150	38.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	51.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	39.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	780		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	64.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	55.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	150	33.	1
Isophorone	ND		ug/kg	160	49.	1
Naphthalene	ND		ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	160	44.	1
NDPA/DPA	ND		ug/kg	150	38.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	54.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	46.	1
Benzo(a)anthracene	330		ug/kg	110	36.	1
Benzo(a)pyrene	310		ug/kg	150	45.	1
Benzo(b)fluoranthene	400		ug/kg	110	37.	1
Benzo(k)fluoranthene	190		ug/kg	110	35.	1

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-04
 Client ID: SB-IRM2-101-SUBS
 Sample Location: NEW YORK

Date Collected: 11/30/15 15:40
 Date Received: 11/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	360		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	34.	1
Anthracene	82	J	ug/kg	110	30.	1
Benzo(ghi)perylene	220		ug/kg	150	38.	1
Fluorene	ND		ug/kg	180	52.	1
Phenanthrene	450		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	44	J	ug/kg	110	35.	1
Indeno(1,2,3-cd)pyrene	230		ug/kg	150	41.	1
Pyrene	620		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	60.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	50.	1
4-Nitroaniline	ND		ug/kg	180	49.	1
Dibenzofuran	ND		ug/kg	180	61.	1
2-Methylnaphthalene	ND		ug/kg	220	58.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	57.	1
Acetophenone	ND		ug/kg	180	57.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	53.	1
2-Chlorophenol	ND		ug/kg	180	55.	1
2,4-Dichlorophenol	ND		ug/kg	160	59.	1
2,4-Dimethylphenol	ND		ug/kg	180	54.	1
2-Nitrophenol	ND		ug/kg	400	57.	1
4-Nitrophenol	ND		ug/kg	260	59.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	67.	1
Pentachlorophenol	ND		ug/kg	150	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	59.	1
Carbazole	66	J	ug/kg	180	39.	1
Benzaldehyde	ND		ug/kg	240	74.	1
Caprolactam	ND		ug/kg	180	50.	1
Atrazine	ND		ug/kg	150	41.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	31.	1

Project Name: IRM SAMPLING**Lab Number:** L1531346**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531346-04

Date Collected: 11/30/15 15:40

Client ID: SB-IRM2-101-SUBS

Date Received: 11/30/15

Sample Location: NEW YORK

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	79		18-120

Project Name: IRM SAMPLING**Lab Number:** L1531346**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531346-05
Client ID: SB-IRM2-102-SUBS
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/01/15 11:37
Analyst: PS
Percent Solids: 94%

Date Collected: 11/30/15 16:10
Date Received: 11/30/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/01/15 02:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	36.	1
Hexachlorobenzene	ND		ug/kg	100	32.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	49.	1
2-Chloronaphthalene	ND		ug/kg	170	57.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	38.	1
2,6-Dinitrotoluene	ND		ug/kg	170	44.	1
Fluoranthene	ND		ug/kg	100	32.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	53.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	40.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	61.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	53.	1
Hexachlorobutadiene	ND		ug/kg	170	49.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	110	1
Hexachloroethane	ND		ug/kg	140	32.	1
Isophorone	ND		ug/kg	160	46.	1
Naphthalene	ND		ug/kg	170	58.	1
Nitrobenzene	ND		ug/kg	160	41.	1
NDPA/DPA	ND		ug/kg	140	36.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	52.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	46.	1
Butyl benzyl phthalate	ND		ug/kg	170	34.	1
Di-n-butylphthalate	ND		ug/kg	170	34.	1
Di-n-octylphthalate	ND		ug/kg	170	43.	1
Diethyl phthalate	ND		ug/kg	170	37.	1
Dimethyl phthalate	ND		ug/kg	170	44.	1
Benzo(a)anthracene	ND		ug/kg	100	34.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	35.	1
Benzo(k)fluoranthene	ND		ug/kg	100	33.	1

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-05
 Client ID: SB-IRM2-102-SUBS
 Sample Location: NEW YORK

Date Collected: 11/30/15 16:10
 Date Received: 11/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	100	34.	1
Acenaphthylene	ND		ug/kg	140	32.	1
Anthracene	ND		ug/kg	100	29.	1
Benzo(ghi)perylene	ND		ug/kg	140	36.	1
Fluorene	ND		ug/kg	170	50.	1
Phenanthrene	ND		ug/kg	100	34.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	34.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	39.	1
Pyrene	ND		ug/kg	100	34.	1
Biphenyl	ND		ug/kg	400	57.	1
4-Chloroaniline	ND		ug/kg	170	46.	1
2-Nitroaniline	ND		ug/kg	170	49.	1
3-Nitroaniline	ND		ug/kg	170	48.	1
4-Nitroaniline	ND		ug/kg	170	47.	1
Dibenzofuran	ND		ug/kg	170	58.	1
2-Methylnaphthalene	ND		ug/kg	210	56.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	54.	1
Acetophenone	ND		ug/kg	170	54.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	50.	1
2-Chlorophenol	ND		ug/kg	170	52.	1
2,4-Dichlorophenol	ND		ug/kg	160	56.	1
2,4-Dimethylphenol	ND		ug/kg	170	52.	1
2-Nitrophenol	ND		ug/kg	380	54.	1
4-Nitrophenol	ND		ug/kg	240	56.	1
2,4-Dinitrophenol	ND		ug/kg	840	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	64.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	52.	1
2-Methylphenol	ND		ug/kg	170	56.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	57.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	56.	1
Carbazole	ND		ug/kg	170	37.	1
Benzaldehyde	ND		ug/kg	230	70.	1
Caprolactam	ND		ug/kg	170	48.	1
Atrazine	ND		ug/kg	140	39.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	30.	1

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-05

Date Collected: 11/30/15 16:10

Client ID: SB-IRM2-102-SUBS

Date Received: 11/30/15

Sample Location: NEW YORK

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	86		18-120

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-06
 Client ID: 3179-113015-0002
 Sample Location: NEW YORK
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 12/01/15 12:04
 Analyst: PS
 Percent Solids: 89%

Date Collected: 11/30/15 00:00
 Date Received: 11/30/15
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/01/15 02:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	47	J	ug/kg	150	38.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	52.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	40.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	820		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	65.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	56.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	120	1
Hexachloroethane	ND		ug/kg	150	33.	1
Isophorone	ND		ug/kg	160	49.	1
Naphthalene	ND		ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	160	44.	1
NDPA/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	55.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	47.	1
Benzo(a)anthracene	310		ug/kg	110	36.	1
Benzo(a)pyrene	310		ug/kg	150	45.	1
Benzo(b)fluoranthene	440		ug/kg	110	37.	1
Benzo(k)fluoranthene	160		ug/kg	110	35.	1

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-06

Date Collected: 11/30/15 00:00

Client ID: 3179-113015-0002

Date Received: 11/30/15

Sample Location: NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	360		ug/kg	110	36.	1
Acenaphthylene	ND		ug/kg	150	34.	1
Anthracene	83	J	ug/kg	110	31.	1
Benzo(ghi)perylene	220		ug/kg	150	38.	1
Fluorene	ND		ug/kg	180	53.	1
Phenanthrene	520		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	45	J	ug/kg	110	36.	1
Indeno(1,2,3-cd)pyrene	250		ug/kg	150	41.	1
Pyrene	650		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	180	48.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	51.	1
4-Nitroaniline	ND		ug/kg	180	50.	1
Dibenzofuran	ND		ug/kg	180	61.	1
2-Methylnaphthalene	ND		ug/kg	220	59.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	57.	1
Acetophenone	ND		ug/kg	180	57.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	53.	1
2-Chlorophenol	ND		ug/kg	180	56.	1
2,4-Dichlorophenol	ND		ug/kg	160	60.	1
2,4-Dimethylphenol	ND		ug/kg	180	55.	1
2-Nitrophenol	ND		ug/kg	400	57.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	880	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	67.	1
Pentachlorophenol	ND		ug/kg	150	39.	1
Phenol	ND		ug/kg	180	54.	1
2-Methylphenol	ND		ug/kg	180	59.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	60.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	60.	1
Carbazole	71	J	ug/kg	180	40.	1
Benzaldehyde	ND		ug/kg	240	74.	1
Caprolactam	ND		ug/kg	180	51.	1
Atrazine	ND		ug/kg	150	42.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	31.	1

Project Name: IRM SAMPLING**Lab Number:** L1531346**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531346-06

Date Collected: 11/30/15 00:00

Client ID: 3179-113015-0002

Date Received: 11/30/15

Sample Location: NEW YORK

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	74		18-120

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 12/01/15 08:56
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 12/01/15 02:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-06 Batch: WG845301-1					
Acenaphthene	ND		ug/kg	130	34.
Hexachlorobenzene	ND		ug/kg	98	30.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	53.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	98	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	150	39.
NDPA/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	98	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 12/01/15 08:56
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 12/01/15 02:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-06 Batch: WG845301-1					
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.
Biphenyl	ND		ug/kg	370	54.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	350	51.
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	60.
Pentachlorophenol	ND		ug/kg	130	35.

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 12/01/15 08:56
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 12/01/15 02:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-06 Batch: WG845301-1					
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Carbazole	ND		ug/kg	160	35.
Benzaldehyde	ND		ug/kg	220	66.
Caprolactam	ND		ug/kg	160	45.
Atrazine	ND		ug/kg	130	37.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	28.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	86		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG845301-2 WG845301-3								
Acenaphthene	81		81		31-137	0		50
Benzidine	32		26		10-66	21		50
n-Nitrosodimethylamine	74		66		22-100	11		50
1,2,4-Trichlorobenzene	74		75		38-107	1		50
Hexachlorobenzene	80		79		40-140	1		50
Bis(2-chloroethyl)ether	71		66		40-140	7		50
2-Chloronaphthalene	79		81		40-140	3		50
1,2-Dichlorobenzene	70		66		40-140	6		50
1,3-Dichlorobenzene	68		62		40-140	9		50
1,4-Dichlorobenzene	68		61		28-104	11		50
3,3'-Dichlorobenzidine	61		61		40-140	0		50
2,4-Dinitrotoluene	81		86		28-89	6		50
2,6-Dinitrotoluene	84		81		40-140	4		50
Fluoranthene	82		82		40-140	0		50
4-Chlorophenyl phenyl ether	80		80		40-140	0		50
4-Bromophenyl phenyl ether	84		84		40-140	0		50
Azobenzene	81		80		40-140	1		50
Bis(2-chloroisopropyl)ether	76		69		40-140	10		50
Bis(2-chloroethoxy)methane	82		77		40-117	6		50
Hexachlorobutadiene	70		69		40-140	1		50
Hexachlorocyclopentadiene	77		76		40-140	1		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG845301-2 WG845301-3								
Hexachloroethane	69		63		40-140	9		50
Isophorone	78		74		40-140	5		50
Naphthalene	74		75		40-140	1		50
Nitrobenzene	75		74		40-140	1		50
NitrosoDiPhenylAmine(NDPA)/DPA	81		82		36-157	1		50
n-Nitrosodi-n-propylamine	80		77		32-121	4		50
Bis(2-Ethylhexyl)phthalate	84		85		40-140	1		50
Butyl benzyl phthalate	84		86		40-140	2		50
Di-n-butylphthalate	82		82		40-140	0		50
Di-n-octylphthalate	84		86		40-140	2		50
Diethyl phthalate	85		82		40-140	4		50
Dimethyl phthalate	81		80		40-140	1		50
Benzo(a)anthracene	79		80		40-140	1		50
Benzo(a)pyrene	81		82		40-140	1		50
Benzo(b)fluoranthene	77		77		40-140	0		50
Benzo(k)fluoranthene	83		83		40-140	0		50
Chrysene	85		86		40-140	1		50
Acenaphthylene	81		81		40-140	0		50
Anthracene	81		81		40-140	0		50
Benzo(ghi)perylene	82		83		40-140	1		50
Fluorene	83		83		40-140	0		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG845301-2 WG845301-3								
Phenanthrene	79		78		40-140	1		50
Dibenzo(a,h)anthracene	81		84		40-140	4		50
Indeno(1,2,3-cd)Pyrene	83		84		40-140	1		50
Pyrene	80		80		35-142	0		50
Biphenyl	94		92		54-104	2		50
Aniline	43		41		40-140	5		50
4-Chloroaniline	77		74		40-140	4		50
2-Nitroaniline	84		85		47-134	1		50
3-Nitroaniline	71		67		26-129	6		50
4-Nitroaniline	83		85		41-125	2		50
Dibenzofuran	83		81		40-140	2		50
2-Methylnaphthalene	75		76		40-140	1		50
1,2,4,5-Tetrachlorobenzene	87		90		40-117	3		50
Acetophenone	96		87		14-144	10		50
2,4,6-Trichlorophenol	81		81		30-130	0		50
P-Chloro-M-Cresol	86		86		26-103	0		50
2-Chlorophenol	76		73		25-102	4		50
2,4-Dichlorophenol	80		84		30-130	5		50
2,4-Dimethylphenol	85		85		30-130	0		50
2-Nitrophenol	82		77		30-130	6		50
4-Nitrophenol	84		85		11-114	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG845301-2 WG845301-3								
2,4-Dinitrophenol	19		27		4-130	35		50
4,6-Dinitro-o-cresol	53		62		10-130	16		50
Pentachlorophenol	67		71		17-109	6		50
Phenol	77		79		26-90	3		50
2-Methylphenol	83		78		30-130.	6		50
3-Methylphenol/4-Methylphenol	86		85		30-130	1		50
2,4,5-Trichlorophenol	79		82		30-130	4		50
Benzoic Acid	3	Q	6	Q	10-66	77	Q	50
Benzyl Alcohol	79		77		40-140	3		50
Carbazole	83		84		54-128	1		50
Benzaldehyde	90		77		40-140	16		50
Caprolactam	97		100		15-130	3		50
Atrazine	90		95		40-140	5		50
2,3,4,6-Tetrachlorophenol	80		83		40-140	4		50
Pyridine	45		38		10-93	17		50
Parathion, ethyl	100		99		40-140	1		50
1-Methylnaphthalene	80		79		26-130	1		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 Batch: WG845301-2 WG845301-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	80		74		25-120
Phenol-d6	84		80		10-120
Nitrobenzene-d5	76		72		23-120
2-Fluorobiphenyl	79		79		30-120
2,4,6-Tribromophenol	83		88		10-136
4-Terphenyl-d14	82		82		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 QC Batch ID: WG845301-4 WG845301-5 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS												
Acenaphthene	ND	1380	1000	72		1200	86		31-137	18		50
Benzidine	ND	1380	260J	19		280J	20		10-66	7		50
n-Nitrosodimethylamine	ND	1380	930	67		1100	79		22-100	17		50
1,2,4-Trichlorobenzene	ND	1380	930	67		1100	79		38-107	17		50
Hexachlorobenzene	ND	1380	940	68		1300	93		40-140	32		50
Bis(2-chloroethyl)ether	ND	1380	940	68		1100	79		40-140	16		50
2-Chloronaphthalene	ND	1380	1000	72		1200	86		40-140	18		50
1,2-Dichlorobenzene	ND	1380	910	66		1100	79		40-140	19		50
1,3-Dichlorobenzene	ND	1380	890	64		1000	72		40-140	12		50
1,4-Dichlorobenzene	ND	1380	860	62		1100	79		28-104	24		50
3,3'-Dichlorobenzidine	ND	1380	840	61		1000	72		40-140	17		50
2,4-Dinitrotoluene	ND	1380	1000	72		1300	93	Q	28-89	26		50
2,6-Dinitrotoluene	ND	1380	1000	72		1300	93		40-140	26		50
Fluoranthene	ND	1380	1000	72		1200	86		40-140	18		50
4-Chlorophenyl phenyl ether	ND	1380	980	71		1300	93		40-140	28		50
4-Bromophenyl phenyl ether	ND	1380	1000	72		1300	93		40-140	26		50
Azobenzene	ND	1380	990	72		1300	93		40-140	27		50
Bis(2-chloroisopropyl)ether	ND	1380	940	68		1100	79		40-140	16		50
Bis(2-chloroethoxy)methane	ND	1380	1000	72		1200	86		40-117	18		50
Hexachlorobutadiene	ND	1380	880	64		1100	79		40-140	22		50
Hexachlorocyclopentadiene	ND	1380	980	71		1200	86		40-140	20		50

Matrix Spike Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 QC Batch ID: WG845301-4 WG845301-5 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS												
Hexachloroethane	ND	1380	870	63		1100	79		40-140	23		50
Isophorone	ND	1380	970	70		1200	86		40-140	21		50
Naphthalene	ND	1380	940	68		1200	86		40-140	24		50
Nitrobenzene	ND	1380	960	69		1200	86		40-140	22		50
NitrosoDiPhenylAmine(NDPA)/DPA	ND	1380	1000	72		1300	93		36-157	26		50
n-Nitrosodi-n-propylamine	ND	1380	960	69		1200	86		32-121	22		50
Bis(2-Ethylhexyl)phthalate	ND	1380	1000	72		1300	93		40-140	26		50
Butyl benzyl phthalate	ND	1380	1000	72		1300	93		40-140	26		50
Di-n-butylphthalate	ND	1380	1000	72		1300	93		40-140	26		50
Di-n-octylphthalate	ND	1380	1100	80		1400	100		40-140	24		50
Diethyl phthalate	ND	1380	1000	72		1300	93		40-140	26		50
Dimethyl phthalate	ND	1380	1000	72		1300	93		40-140	26		50
Benzo(a)anthracene	ND	1380	980	71		1200	86		40-140	20		50
Benzo(a)pyrene	ND	1380	980	71		1200	86		40-140	20		50
Benzo(b)fluoranthene	ND	1380	940	68		1300	93		40-140	32		50
Benzo(k)fluoranthene	ND	1380	1000	72		1200	86		40-140	18		50
Chrysene	ND	1380	1000	72		1300	93		40-140	26		50
Acenaphthylene	ND	1380	1000	72		1300	93		40-140	26		50
Anthracene	ND	1380	990	72		1300	93		40-140	27		50
Benzo(ghi)perylene	ND	1380	1000	72		1200	86		40-140	18		50
Fluorene	ND	1380	1000	72		1300	93		40-140	26		50

Matrix Spike Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 QC Batch ID: WG845301-4 WG845301-5 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS												
Phenanthrene	ND	1380	990	72		1200	86		40-140	19		50
Dibenzo(a,h)anthracene	ND	1380	1000	72		1300	93		40-140	26		50
Indeno(1,2,3-cd)Pyrene	ND	1380	1000	72		1200	86		40-140	18		50
Pyrene	ND	1380	980	71		1200	86		35-142	20		50
Biphenyl	ND	1380	1100	80		1500	110	Q	54-104	31		50
Aniline	ND	1380	590	43		750	54		40-140	24		50
4-Chloroaniline	ND	1380	990	72		1600	110		40-140	47		50
2-Nitroaniline	ND	1380	1100	80		1400	100		47-134	24		50
3-Nitroaniline	ND	1380	820	59		1100	79		26-129	29		50
4-Nitroaniline	ND	1380	1000	72		1300	93		41-125	26		50
Dibenzofuran	ND	1380	1000	72		1300	93		40-140	26		50
2-Methylnaphthalene	ND	1380	960	69		1200	86		40-140	22		50
1,2,4,5-Tetrachlorobenzene	ND	1380	1100	80		1400	100		40-117	24		50
Acetophenone	ND	1380	1200	87		1400	100		14-144	15		50
2,4,6-Trichlorophenol	ND	1380	970	70		1300	93		30-130	29		50
P-Chloro-M-Cresol	ND	1380	1100	80		1400	100		26-103	24		50
2-Chlorophenol	ND	1380	960	69		1200	86		25-102	22		50
2,4-Dichlorophenol	ND	1380	1000	72		1300	93		30-130	26		50
2,4-Dimethylphenol	ND	1380	1000	72		1200	86		30-130	18		50
2-Nitrophenol	ND	1380	990	72		1200	86		30-130	19		50
4-Nitrophenol	ND	1380	1000	72		1400	100		11-114	33		50

Matrix Spike Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 QC Batch ID: WG845301-4 WG845301-5 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS												
2,4-Dinitrophenol	ND	1380	ND	0	Q	ND	0	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1380	770	56		1000	72		10-130	26		50
Pentachlorophenol	ND	1380	670	48		890	64		17-109	28		50
Phenol	ND	1380	950	69		1200	86		26-90	23		50
2-Methylphenol	ND	1380	980	71		1200	86		30-130.	20		50
3-Methylphenol/4-Methylphenol	ND	1380	1100	80		1300	93		30-130	17		50
2,4,5-Trichlorophenol	ND	1380	990	72		1200	86		30-130	19		50
Benzoic Acid	ND	1380	ND	0	Q	ND	0	Q	10-66	NC		50
Benzyl Alcohol	ND	1380	1000	72		1200	86		40-140	18		50
Carbazole	ND	1380	1000	72		1300	93		54-128	26		50
Benzaldehyde	ND	1380	1100	80		1300	93		40-140	17		50
Caprolactam	ND	1380	1400	100		1800	130		15-130	25		50
Atrazine	ND	1380	1100	80		1400	100		40-140	24		50
2,3,4,6-Tetrachlorophenol	ND	1380	1000	72		1300	93		40-140	26		50
Pyridine	ND	1380	800	58		920	66		10-93	14		50
Parathion, ethyl	ND	1380	1200	87		1700	120		40-140	34		50
1-Methylnaphthalene	ND	1380	980	71		1200	86		26-130	20		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	75		92		10-136

Matrix Spike Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-06 QC Batch ID: WG845301-4 WG845301-5 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2-Fluorobiphenyl	72		89		30-120
2-Fluorophenol	71		89		25-120
4-Terphenyl-d14	70		88		18-120
Nitrobenzene-d5	68		77		23-120
Phenol-d6	75		89		10-120

PESTICIDES

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-04
 Client ID: SB-IRM2-101-SUBS
 Sample Location: NEW YORK
 Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/01/15 12:39
 Analyst: EC
 Percent Solids: 90%

Date Collected: 11/30/15 15:40
 Date Received: 11/30/15
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 12/01/15 02:46
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/01/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.338	1	A
Lindane	ND		ug/kg	0.719	0.322	1	A
Alpha-BHC	ND		ug/kg	0.719	0.204	1	A
Beta-BHC	ND		ug/kg	1.73	0.655	1	A
Heptachlor	ND		ug/kg	0.863	0.387	1	A
Aldrin	ND		ug/kg	1.73	0.608	1	A
Heptachlor epoxide	ND		ug/kg	3.24	0.971	1	A
Endrin	ND		ug/kg	0.719	0.295	1	A
Endrin aldehyde	ND		ug/kg	2.16	0.755	1	A
Endrin ketone	ND		ug/kg	1.73	0.445	1	A
Dieldrin	ND		ug/kg	1.08	0.540	1	A
4,4'-DDE	ND		ug/kg	1.73	0.399	1	A
4,4'-DDD	ND		ug/kg	1.73	0.616	1	A
4,4'-DDT	1.94	J	ug/kg	3.24	1.39	1	B
Endosulfan I	ND		ug/kg	1.73	0.408	1	A
Endosulfan II	ND		ug/kg	1.73	0.577	1	A
Endosulfan sulfate	ND		ug/kg	0.719	0.342	1	A
Methoxychlor	ND		ug/kg	3.24	1.01	1	A
Toxaphene	ND		ug/kg	32.4	9.06	1	A
cis-Chlordane	ND		ug/kg	2.16	0.601	1	A
trans-Chlordane	ND		ug/kg	2.16	0.570	1	A
Chlordane	ND		ug/kg	14.0	5.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	98		30-150	A

Project Name: IRM SAMPLING**Lab Number:** L1531346**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531346-05
Client ID: SB-IRM2-102-SUBS
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/01/15 12:52
Analyst: EC
Percent Solids: 94%

Date Collected: 11/30/15 16:10
Date Received: 11/30/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/01/15 02:46
Cleanup Method: EPA 3620B
Cleanup Date: 12/01/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.324	1	A
Lindane	ND		ug/kg	0.688	0.308	1	A
Alpha-BHC	ND		ug/kg	0.688	0.195	1	A
Beta-BHC	ND		ug/kg	1.65	0.626	1	A
Heptachlor	ND		ug/kg	0.826	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.582	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.929	1	A
Endrin	ND		ug/kg	0.688	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.723	1	A
Endrin ketone	ND		ug/kg	1.65	0.425	1	A
Dieldrin	ND		ug/kg	1.03	0.516	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.589	1	A
4,4'-DDT	ND		ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.552	1	A
Endosulfan sulfate	ND		ug/kg	0.688	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.964	1	A
Toxaphene	ND		ug/kg	31.0	8.67	1	A
cis-Chlordane	ND		ug/kg	2.06	0.575	1	A
trans-Chlordane	ND		ug/kg	2.06	0.545	1	A
Chlordane	ND		ug/kg	13.4	5.47	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	114		30-150	B
2,4,5,6-Tetrachloro-m-xylene	105		30-150	A
Decachlorobiphenyl	116		30-150	A

Project Name: IRM SAMPLING**Lab Number:** L1531346**Project Number:** 34201-313**Report Date:** 12/01/15**SAMPLE RESULTS**

Lab ID: L1531346-06
Client ID: 3179-113015-0002
Sample Location: NEW YORK
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/01/15 13:06
Analyst: EC
Percent Solids: 89%

Date Collected: 11/30/15 00:00
Date Received: 11/30/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 12/01/15 02:46
Cleanup Method: EPA 3620B
Cleanup Date: 12/01/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.340	1	A
Lindane	ND		ug/kg	0.723	0.323	1	A
Alpha-BHC	ND		ug/kg	0.723	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.658	1	A
Heptachlor	ND		ug/kg	0.867	0.389	1	A
Aldrin	ND		ug/kg	1.73	0.611	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.976	1	A
Endrin	ND		ug/kg	0.723	0.296	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.759	1	A
Endrin ketone	ND		ug/kg	1.73	0.447	1	A
Dieldrin	ND		ug/kg	1.08	0.542	1	A
4,4'-DDE	ND		ug/kg	1.73	0.401	1	A
4,4'-DDD	ND		ug/kg	1.73	0.619	1	A
4,4'-DDT	2.40	J	ug/kg	3.25	1.39	1	B
Endosulfan I	ND		ug/kg	1.73	0.410	1	A
Endosulfan II	ND		ug/kg	1.73	0.580	1	A
Endosulfan sulfate	ND		ug/kg	0.723	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.10	1	A
cis-Chlordane	ND		ug/kg	2.17	0.604	1	A
trans-Chlordane	ND		ug/kg	2.17	0.572	1	A
Chlordane	ND		ug/kg	14.1	5.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	102		30-150	A

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 12/01/15 11:34
 Analyst: EC

Extraction Method: EPA 3546
 Extraction Date: 12/01/15 02:46
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/01/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04-06 Batch: WG845300-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.632	0.283	A
Alpha-BHC	ND		ug/kg	0.632	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.759	0.340	A
Aldrin	ND		ug/kg	1.52	0.534	A
Heptachlor epoxide	ND		ug/kg	2.85	0.854	A
Endrin	ND		ug/kg	0.632	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.949	0.474	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.541	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.507	A
Endosulfan sulfate	ND		ug/kg	0.632	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.886	A
Toxaphene	ND		ug/kg	28.5	7.97	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.3	5.03	A

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 12/01/15 11:34
 Analyst: EC

Extraction Method: EPA 3546
 Extraction Date: 12/01/15 02:46
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/01/15

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04-06 Batch: WG845300-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	108		30-150	B
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	120		30-150	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04-06 Batch: WG845300-2 WG845300-3									
Delta-BHC	95		87		30-150	9		30	A
Lindane	98		89		30-150	10		30	A
Alpha-BHC	98		87		30-150	12		30	A
Beta-BHC	105		99		30-150	6		30	A
Heptachlor	104		97		30-150	7		30	A
Aldrin	104		95		30-150	9		30	A
Heptachlor epoxide	111		103		30-150	7		30	A
Endrin	109		101		30-150	8		30	A
Endrin aldehyde	96		85		30-150	12		30	A
Endrin ketone	102		91		30-150	11		30	A
Dieldrin	103		97		30-150	6		30	A
4,4'-DDE	108		97		30-150	11		30	A
4,4'-DDD	113		103		30-150	9		30	A
4,4'-DDT	124		111		30-150	11		30	A
Endosulfan I	105		96		30-150	9		30	A
Endosulfan II	116		105		30-150	10		30	A
Endosulfan sulfate	92		83		30-150	10		30	A
Methoxychlor	120		105		30-150	13		30	A
cis-Chlordane	114		102		30-150	11		30	A
trans-Chlordane	110		100		30-150	10		30	A

Lab Control Sample Analysis**Batch Quality Control****Project Name:** IRM SAMPLING**Lab Number:** L1531346**Project Number:** 34201-313**Report Date:** 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04-06 Batch: WG845300-2 WG845300-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		80		30-150	B
Decachlorobiphenyl	114		103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	113		98		30-150	A
Decachlorobiphenyl	127		110		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04-06 QC Batch ID: WG845300-4 WG845300-5 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS													
Delta-BHC	ND	34.6	31.6	91		32.6	95		30-150	3		50	A
Lindane	ND	34.6	30.4	88		32.8	95		30-150	8		50	A
Alpha-BHC	ND	34.6	33.0	95		33.8	98		30-150	2		50	A
Beta-BHC	ND	34.6	41.3	119		36.0	105		30-150	14		50	A
Heptachlor	ND	34.6	34.5	100		36.0	105		30-150	4		50	A
Aldrin	ND	34.6	34.0	98		34.6	101		30-150	2		50	A
Heptachlor epoxide	ND	34.6	36.3	105		38.0	111		30-150	5		50	A
Endrin	ND	34.6	35.9	104		36.9	107		30-150	3		50	A
Endrin aldehyde	ND	34.6	30.2	87		31.6	92		30-150	5		50	A
Endrin ketone	ND	34.6	32.0	93		33.5	98		30-150	5		50	A
Dieldrin	ND	34.6	34.6	100		35.7	104		30-150	3		50	A
4,4'-DDE	ND	34.6	34.7	100		35.9	104		30-150	3		50	A
4,4'-DDD	ND	34.6	36.6	106		38.0	111		30-150	4		50	A
4,4'-DDT	ND	34.6	40.1	116		41.2	120		30-150	3		50	A
Endosulfan I	ND	34.6	34.0	98		36.7	107		30-150	8		50	A
Endosulfan II	ND	34.6	37.9	110		39.5	115		30-150	4		50	A
Endosulfan sulfate	ND	34.6	30.3	88		32.4	94		30-150	7		50	A
Methoxychlor	ND	34.6	38.7	112		39.7	116		30-150	3		50	A
cis-Chlordane	ND	34.6	36.3	105		39.0	113		30-150	7		50	A
trans-Chlordane	ND	34.6	34.5	100		35.6	104		30-150	3		50	A

Matrix Spike Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04-06 QC Batch ID: WG845300-4 WG845300-5 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	85		89		30-150	B
Decachlorobiphenyl	108		117		30-150	B
2,4,5,6-Tetrachloro-m-xylene	107		112		30-150	A
Decachlorobiphenyl	115		126		30-150	A

METALS

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-01

Date Collected: 11/30/15 16:20

Client ID: SB-IRM2-103-SUBS

Date Received: 11/30/15

Sample Location: NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	6.0		mg/kg	0.40	0.08	1	12/01/15 03:46	12/01/15 09:52	EPA 3050B	1,6010C	JH
Barium, Total	21		mg/kg	0.40	0.12	1	12/01/15 03:46	12/01/15 09:52	EPA 3050B	1,6010C	JH
Beryllium, Total	0.21		mg/kg	0.20	0.04	1	12/01/15 03:46	12/01/15 09:52	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	12/01/15 03:46	12/01/15 09:52	EPA 3050B	1,6010C	JH
Chromium, Total	8.4		mg/kg	0.40	0.08	1	12/01/15 03:46	12/01/15 09:52	EPA 3050B	1,6010C	JH
Copper, Total	28		mg/kg	0.40	0.08	1	12/01/15 03:46	12/01/15 09:52	EPA 3050B	1,6010C	JH
Lead, Total	3.7		mg/kg	2.0	0.08	1	12/01/15 03:46	12/01/15 09:52	EPA 3050B	1,6010C	JH
Manganese, Total	360		mg/kg	0.40	0.08	1	12/01/15 03:46	12/01/15 09:52	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.07	0.02	1	12/01/15 08:55	12/01/15 11:53	EPA 7471B	1,7471B	DB
Nickel, Total	15		mg/kg	1.0	0.16	1	12/01/15 03:46	12/01/15 09:52	EPA 3050B	1,6010C	JH
Selenium, Total	0.14	J	mg/kg	0.81	0.12	1	12/01/15 03:46	12/01/15 09:52	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	12/01/15 03:46	12/01/15 09:52	EPA 3050B	1,6010C	JH
Zinc, Total	71		mg/kg	2.0	0.28	1	12/01/15 03:46	12/01/15 09:52	EPA 3050B	1,6010C	JH



Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-02

Date Collected: 11/30/15 16:30

Client ID: SB-IRM2-104-SUBS

Date Received: 11/30/15

Sample Location: NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	11		mg/kg	0.44	0.09	1	12/01/15 03:46	12/01/15 09:56	EPA 3050B	1,6010C	JH
Barium, Total	27		mg/kg	0.44	0.13	1	12/01/15 03:46	12/01/15 09:56	EPA 3050B	1,6010C	JH
Beryllium, Total	0.31		mg/kg	0.22	0.04	1	12/01/15 03:46	12/01/15 09:56	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.44	0.03	1	12/01/15 03:46	12/01/15 09:56	EPA 3050B	1,6010C	JH
Chromium, Total	9.2		mg/kg	0.44	0.09	1	12/01/15 03:46	12/01/15 09:56	EPA 3050B	1,6010C	JH
Copper, Total	39		mg/kg	0.44	0.09	1	12/01/15 03:46	12/01/15 09:56	EPA 3050B	1,6010C	JH
Lead, Total	4.5		mg/kg	2.2	0.09	1	12/01/15 03:46	12/01/15 09:56	EPA 3050B	1,6010C	JH
Manganese, Total	770		mg/kg	0.44	0.09	1	12/01/15 03:46	12/01/15 09:56	EPA 3050B	1,6010C	JH
Mercury, Total	0.04	J	mg/kg	0.07	0.02	1	12/01/15 08:55	12/01/15 11:55	EPA 7471B	1,7471B	DB
Nickel, Total	16		mg/kg	1.1	0.17	1	12/01/15 03:46	12/01/15 09:56	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.87	0.13	1	12/01/15 03:46	12/01/15 09:56	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.44	0.09	1	12/01/15 03:46	12/01/15 09:56	EPA 3050B	1,6010C	JH
Zinc, Total	300		mg/kg	2.2	0.30	1	12/01/15 03:46	12/01/15 09:56	EPA 3050B	1,6010C	JH



Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-03

Date Collected: 11/30/15 16:40

Client ID: SB-IRM2-105-SUBS

Date Received: 11/30/15

Sample Location: NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	5.7		mg/kg	0.43	0.09	1	12/01/15 03:46	12/01/15 10:22	EPA 3050B	1,6010C	JH
Barium, Total	22		mg/kg	0.43	0.13	1	12/01/15 03:46	12/01/15 10:22	EPA 3050B	1,6010C	JH
Beryllium, Total	0.28		mg/kg	0.22	0.04	1	12/01/15 03:46	12/01/15 10:22	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.43	0.03	1	12/01/15 03:46	12/01/15 10:22	EPA 3050B	1,6010C	JH
Chromium, Total	8.2		mg/kg	0.43	0.09	1	12/01/15 03:46	12/01/15 10:22	EPA 3050B	1,6010C	JH
Copper, Total	27		mg/kg	0.43	0.09	1	12/01/15 03:46	12/01/15 10:22	EPA 3050B	1,6010C	JH
Lead, Total	4.3		mg/kg	2.2	0.09	1	12/01/15 03:46	12/01/15 10:22	EPA 3050B	1,6010C	JH
Manganese, Total	600		mg/kg	0.43	0.09	1	12/01/15 03:46	12/01/15 10:22	EPA 3050B	1,6010C	JH
Mercury, Total	0.04	J	mg/kg	0.07	0.01	1	12/01/15 08:55	12/01/15 12:00	EPA 7471B	1,7471B	DB
Nickel, Total	14		mg/kg	1.1	0.17	1	12/01/15 03:46	12/01/15 10:22	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.86	0.13	1	12/01/15 03:46	12/01/15 10:22	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.43	0.09	1	12/01/15 03:46	12/01/15 10:22	EPA 3050B	1,6010C	JH
Zinc, Total	94		mg/kg	2.2	0.30	1	12/01/15 03:46	12/01/15 10:22	EPA 3050B	1,6010C	JH



Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-04

Date Collected: 11/30/15 15:40

Client ID: SB-IRM2-101-SUBS

Date Received: 11/30/15

Sample Location: NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	19		mg/kg	0.44	0.09	1	12/01/15 03:46	12/01/15 10:26	EPA 3050B	1,6010C	JH
Barium, Total	41		mg/kg	0.44	0.13	1	12/01/15 03:46	12/01/15 10:26	EPA 3050B	1,6010C	JH
Beryllium, Total	0.28		mg/kg	0.22	0.04	1	12/01/15 03:46	12/01/15 10:26	EPA 3050B	1,6010C	JH
Cadmium, Total	0.72		mg/kg	0.44	0.03	1	12/01/15 03:46	12/01/15 10:26	EPA 3050B	1,6010C	JH
Chromium, Total	8.8		mg/kg	0.44	0.09	1	12/01/15 03:46	12/01/15 10:26	EPA 3050B	1,6010C	JH
Copper, Total	37		mg/kg	0.44	0.09	1	12/01/15 03:46	12/01/15 10:26	EPA 3050B	1,6010C	JH
Lead, Total	11		mg/kg	2.2	0.09	1	12/01/15 03:46	12/01/15 10:26	EPA 3050B	1,6010C	JH
Manganese, Total	510		mg/kg	0.44	0.09	1	12/01/15 03:46	12/01/15 10:26	EPA 3050B	1,6010C	JH
Mercury, Total	0.06	J	mg/kg	0.07	0.02	1	12/01/15 08:55	12/01/15 12:02	EPA 7471B	1,7471B	DB
Nickel, Total	15		mg/kg	1.1	0.18	1	12/01/15 03:46	12/01/15 10:26	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.88	0.13	1	12/01/15 03:46	12/01/15 10:26	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.44	0.09	1	12/01/15 03:46	12/01/15 10:26	EPA 3050B	1,6010C	JH
Zinc, Total	330		mg/kg	2.2	0.31	1	12/01/15 03:46	12/01/15 10:26	EPA 3050B	1,6010C	JH



Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-05

Date Collected: 11/30/15 16:10

Client ID: SB-IRM2-102-SUBS

Date Received: 11/30/15

Sample Location: NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	6.4		mg/kg	0.42	0.08	1	12/01/15 03:46	12/01/15 09:35	EPA 3050B	1,6010C	JH
Barium, Total	21		mg/kg	0.42	0.13	1	12/01/15 03:46	12/01/15 09:35	EPA 3050B	1,6010C	JH
Beryllium, Total	0.22		mg/kg	0.21	0.04	1	12/01/15 03:46	12/01/15 09:35	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.42	0.03	1	12/01/15 03:46	12/01/15 09:35	EPA 3050B	1,6010C	JH
Chromium, Total	8.3		mg/kg	0.42	0.08	1	12/01/15 03:46	12/01/15 09:35	EPA 3050B	1,6010C	JH
Copper, Total	34		mg/kg	0.42	0.08	1	12/01/15 03:46	12/01/15 09:35	EPA 3050B	1,6010C	JH
Lead, Total	3.5		mg/kg	2.1	0.08	1	12/01/15 03:46	12/01/15 09:35	EPA 3050B	1,6010C	JH
Manganese, Total	420		mg/kg	0.42	0.08	1	12/01/15 03:46	12/01/15 09:35	EPA 3050B	1,6010C	JH
Mercury, Total	0.02	J	mg/kg	0.07	0.02	1	12/01/15 08:55	12/01/15 12:04	EPA 7471B	1,7471B	DB
Nickel, Total	15		mg/kg	1.0	0.17	1	12/01/15 03:46	12/01/15 09:35	EPA 3050B	1,6010C	JH
Selenium, Total	0.31	J	mg/kg	0.84	0.13	1	12/01/15 03:46	12/01/15 09:35	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.42	0.08	1	12/01/15 03:46	12/01/15 09:35	EPA 3050B	1,6010C	JH
Zinc, Total	83		mg/kg	2.1	0.29	1	12/01/15 03:46	12/01/15 09:35	EPA 3050B	1,6010C	JH



Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-06

Date Collected: 11/30/15 00:00

Client ID: 3179-113015-0002

Date Received: 11/30/15

Sample Location: NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	15		mg/kg	0.45	0.09	1	12/01/15 03:46	12/01/15 10:29	EPA 3050B	1,6010C	JH
Barium, Total	47		mg/kg	0.45	0.13	1	12/01/15 03:46	12/01/15 10:29	EPA 3050B	1,6010C	JH
Beryllium, Total	0.32		mg/kg	0.22	0.05	1	12/01/15 03:46	12/01/15 10:29	EPA 3050B	1,6010C	JH
Cadmium, Total	0.31	J	mg/kg	0.45	0.03	1	12/01/15 03:46	12/01/15 10:29	EPA 3050B	1,6010C	JH
Chromium, Total	9.8		mg/kg	0.45	0.09	1	12/01/15 03:46	12/01/15 10:29	EPA 3050B	1,6010C	JH
Copper, Total	36		mg/kg	0.45	0.09	1	12/01/15 03:46	12/01/15 10:29	EPA 3050B	1,6010C	JH
Lead, Total	13		mg/kg	2.2	0.09	1	12/01/15 03:46	12/01/15 10:29	EPA 3050B	1,6010C	JH
Manganese, Total	470		mg/kg	0.45	0.09	1	12/01/15 03:46	12/01/15 10:29	EPA 3050B	1,6010C	JH
Mercury, Total	0.07	J	mg/kg	0.08	0.02	1	12/01/15 08:55	12/01/15 12:11	EPA 7471B	1,7471B	DB
Nickel, Total	16		mg/kg	1.1	0.18	1	12/01/15 03:46	12/01/15 10:29	EPA 3050B	1,6010C	JH
Selenium, Total	0.15	J	mg/kg	0.89	0.13	1	12/01/15 03:46	12/01/15 10:29	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.45	0.09	1	12/01/15 03:46	12/01/15 10:29	EPA 3050B	1,6010C	JH
Zinc, Total	280		mg/kg	2.2	0.31	1	12/01/15 03:46	12/01/15 10:29	EPA 3050B	1,6010C	JH



Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG845305-1										
Arsenic, Total	ND		mg/kg	0.40	0.08	1	12/01/15 03:46	12/01/15 09:28	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	12/01/15 03:46	12/01/15 09:28	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	12/01/15 03:46	12/01/15 09:28	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	12/01/15 03:46	12/01/15 09:28	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	12/01/15 03:46	12/01/15 09:28	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	12/01/15 03:46	12/01/15 09:28	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	12/01/15 03:46	12/01/15 09:28	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	12/01/15 03:46	12/01/15 09:28	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	12/01/15 03:46	12/01/15 09:28	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	12/01/15 03:46	12/01/15 09:28	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	12/01/15 03:46	12/01/15 09:28	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	12/01/15 03:46	12/01/15 09:28	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG845391-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	12/01/15 08:55	12/01/15 11:49	1,7471B	DB

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG845305-2 SRM Lot Number: D088-540								
Arsenic, Total	88		-		79-121	-		
Barium, Total	83		-		83-117	-		
Beryllium, Total	84		-		83-117	-		
Cadmium, Total	85		-		83-117	-		
Chromium, Total	82		-		80-120	-		
Copper, Total	82		-		81-118	-		
Lead, Total	88		-		81-117	-		
Manganese, Total	84		-		81-118	-		
Nickel, Total	84		-		83-117	-		
Selenium, Total	91		-		78-122	-		
Silver, Total	86		-		75-124	-		
Zinc, Total	84		-		82-118	-		
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG845391-2 SRM Lot Number: D088-540								
Mercury, Total	118		-		72-128	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG845305-3 WG845305-4 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS												
Arsenic, Total	6.4	10.1	15	85		21	148	Q	75-125	33	Q	20
Barium, Total	21.	168	150	77		150	78		75-125	0		20
Beryllium, Total	0.22	4.2	3.5	78		3.4	77		75-125	3		20
Cadmium, Total	ND	4.28	3.0	70	Q	2.9	69	Q	75-125	3		20
Chromium, Total	8.3	16.8	19	64	Q	20	71	Q	75-125	5		20
Copper, Total	34.	21	49	71	Q	48	68	Q	75-125	2		20
Lead, Total	3.5	42.8	33	69	Q	34	72	Q	75-125	3		20
Manganese, Total	420	42	510	214	Q	450	73	Q	75-125	13		20
Nickel, Total	15.	42	42	64	Q	46	75		75-125	9		20
Selenium, Total	0.31J	10.1	9.2	91		8.8	89		75-125	4		20
Silver, Total	ND	25.2	23	91		22	89		75-125	4		20
Zinc, Total	83.	42	110	64	Q	120	90		75-125	9		20

Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG845391-3 WG845391-4 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS

Mercury, Total	0.02J	0.139	0.18	129	Q	0.18	123	Q	80-120	0		20
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INORGANICS & MISCELLANEOUS

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-01

Client ID: SB-IRM2-103-SUBS

Sample Location: NEW YORK

Matrix: Soil

Date Collected: 11/30/15 16:20

Date Received: 11/30/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	8.4		mg/kg	0.84	0.84	1	-	12/01/15 11:36	107,-	
Solids, Total	95.1		%	0.100	NA	1	-	12/01/15 02:58	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.0	0.17	1	12/01/15 09:42	12/01/15 12:53	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.84	0.17	1	12/01/15 04:20	12/01/15 11:36	1,7196A	JT



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-02

Client ID: SB-IRM2-104-SUBS

Sample Location: NEW YORK

Matrix: Soil

Date Collected: 11/30/15 16:30

Date Received: 11/30/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	9.2		mg/kg	0.88	0.88	1	-	12/01/15 11:36	107,-	
Solids, Total	90.3		%	0.100	NA	1	-	12/01/15 02:58	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.0	0.18	1	12/01/15 09:42	12/01/15 12:53	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.88	0.18	1	12/01/15 04:20	12/01/15 11:36	1,7196A	JT



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-03

Client ID: SB-IRM2-105-SUBS

Sample Location: NEW YORK

Matrix: Soil

Date Collected: 11/30/15 16:40

Date Received: 11/30/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	8.2		mg/kg	0.87	0.87	1	-	12/01/15 11:37	107,-	
Solids, Total	92.0		%	0.100	NA	1	-	12/01/15 02:58	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.1	0.18	1	12/01/15 09:42	12/01/15 12:54	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.87	0.17	1	12/01/15 04:20	12/01/15 11:37	1,7196A	JT



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-04

Client ID: SB-IRM2-101-SUBS

Sample Location: NEW YORK

Matrix: Soil

Date Collected: 11/30/15 15:40

Date Received: 11/30/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	8.8		mg/kg	0.89	0.89	1	-	12/01/15 11:38	107,-	
Solids, Total	90.2		%	0.100	NA	1	-	12/01/15 02:58	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.1	0.18	1	12/01/15 09:42	12/01/15 12:55	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.89	0.18	1	12/01/15 04:20	12/01/15 11:38	1,7196A	JT



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-05

Client ID: SB-IRM2-102-SUBS

Sample Location: NEW YORK

Matrix: Soil

Date Collected: 11/30/15 16:10

Date Received: 11/30/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	8.3		mg/kg	0.85	0.85	1	-	12/01/15 11:38	107,-	
Solids, Total	94.4		%	0.100	NA	1	-	12/01/15 02:58	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.0	0.17	1	12/01/15 09:42	12/01/15 12:56	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.85	0.17	1	12/01/15 04:20	12/01/15 11:38	1,7196A	JT



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

SAMPLE RESULTS

Lab ID: L1531346-06
 Client ID: 3179-113015-0002
 Sample Location: NEW YORK
 Matrix: Soil

Date Collected: 11/30/15 00:00
 Date Received: 11/30/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	9.8		mg/kg	0.90	0.90	1	-	12/01/15 11:39	107,-	
Solids, Total	88.7		%	0.100	NA	1	-	12/01/15 02:58	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.1	0.18	1	12/01/15 09:42	12/01/15 12:58	1,9010C/9012B	JO
Chromium, Hexavalent	ND		mg/kg	0.90	0.18	1	12/01/15 04:20	12/01/15 11:39	1,7196A	JT



Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG845394-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	12/01/15 04:20	12/01/15 11:34	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG845407-1										
Cyanide, Total	ND		mg/kg	0.87	0.14	1	12/01/15 09:42	12/01/15 12:44	1,9010C/9012B	JO

Lab Control Sample Analysis Batch Quality Control

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG845394-2								
Chromium, Hexavalent	88		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG845407-2 WG845407-3								
Cyanide, Total	103		96		80-120	9		35

Matrix Spike Analysis **Batch Quality Control**

Project Name: IRM SAMPLING

Lab Number: L1531346

Project Number: 34201-313

Report Date: 12/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG845394-4 WG845394-5 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS												
Chromium, Hexavalent	ND	1050	1000	95		950	100		75-125	5		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG845407-4 WG845407-5 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS												
Cyanide, Total	ND	9.9	8.4	85		8.1	80		65-135	4		35

Lab Duplicate Analysis Batch Quality Control

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531346
Report Date: 12/01/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG845302-1 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS						
Solids, Total	94.4	93.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG845394-8 QC Sample: L1531346-05 Client ID: SB-IRM2-102-SUBS						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 12/01/2015 02:39

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1531346-01A	Vial MeOH preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-01B	Vial water preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-01C	Vial water preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-01D	Plastic 2oz unpreserved for TS	A	N/A	5.1	Y	Absent	TS(7)
L1531346-01E	Glass 120ml/4oz unpreserved	A	N/A	5.1	Y	Absent	BE-TI(180),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531346-01F	Glass 120ml/4oz unpreserved	A	N/A	5.1	Y	Absent	BE-TI(180),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531346-02A	Vial MeOH preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-02B	Vial water preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-02C	Vial water preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-02D	Plastic 2oz unpreserved for TS	A	N/A	5.1	Y	Absent	TS(7)
L1531346-02E	Glass 120ml/4oz unpreserved	A	N/A	5.1	Y	Absent	BE-TI(180),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1531346-02F	Glass 120ml/4oz unpreserved	A	N/A	5.1	Y	Absent	BE-TI(180),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531346-03A	Vial MeOH preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-03B	Vial water preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-03C	Vial water preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-03D	Plastic 2oz unpreserved for TS	A	N/A	5.1	Y	Absent	TS(7)
L1531346-03E	Glass 250ml/8oz unpreserved	A	N/A	5.1	Y	Absent	BE-TI(180),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531346-03F	Glass 250ml/8oz unpreserved	A	N/A	5.1	Y	Absent	BE-TI(180),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531346-04A	Vial MeOH preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-04B	Vial water preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-04C	Vial water preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-04D	Plastic 2oz unpreserved for TS	A	N/A	5.1	Y	Absent	TS(7)
L1531346-04E	Glass 250ml/8oz unpreserved	A	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531346-04F	Glass 250ml/8oz unpreserved	A	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531346-05A	Vial MeOH preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days



Project Name: IRM SAMPLING

Project Number: 34201-313

Lab Number: L1531346

Report Date: 12/01/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1531346-05B	Vial water preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-05C	Vial water preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-05D	Plastic 2oz unpreserved for TS	A	N/A	5.1	Y	Absent	TRICR-CALC(30),TS(7)
L1531346-05E	Glass 250ml/8oz unpreserved	A	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8260HLW(2),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531346-05F	Glass 250ml/8oz unpreserved	A	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531346-06A	Vial MeOH preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-06B	Vial water preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-06C	Vial water preserved	A	N/A	5.1	Y	Absent	NYTCL-8260HLW(14)
L1531346-06D	Plastic 2oz unpreserved for TS	A	N/A	5.1	Y	Absent	TRICR-CALC(30),TS(7)
L1531346-06E	Glass 120ml/4oz unpreserved	A	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)
L1531346-06F	Glass 250ml/8oz unpreserved	A	N/A	5.1	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),CD-TI(180),HEXCR-7196(30)

Container Comments

L1531346-01E

L1531346-02E

L1531346-03E

*Values in parentheses indicate holding time in days



Project Name: IRM SAMPLING**Project Number:** 34201-313**Lab Number:** L1531346**Report Date:** 12/01/15**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
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Container Comments

L1531346-04E

L1531346-05F

L1531346-06E

*Values in parentheses indicate holding time in days

Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531346
Report Date: 12/01/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers



Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531346
Report Date: 12/01/15

Data Qualifiers

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: IRM SAMPLING
Project Number: 34201-313

Lab Number: L1531346
Report Date: 12/01/15

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 107 Alpha Analytical - In-house calculation method.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 8260C: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; Iodomethane (methyl iodide) (soil); Methyl methacrylate (soil); Azobenzene.

EPA 8270D: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

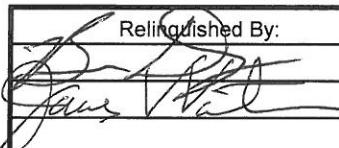
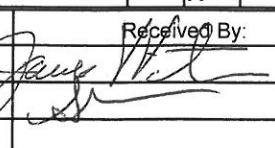
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 12/1/15		ALPHA Job # L1531346	
		Project Information Project Name: IRM Sampling Project Location: New York Project # _____ (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☒ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO # 15555			
		Client Information Client: Haley & Aldrich, Inc. Address: 200 Town Centre Drive Suite 102 Rochester, NY 14623 Phone: 585-321-4235 Fax: _____ Email: Bdrayn@haleyaldrich.com		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other: NA			
Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS TCL VOC 8260/5035 Pt 375 Metals TCL SVOCs TCL Pst. TCN		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Sample Specific Comments			
These samples have been previously analyzed by Alpha ☐		Rush (only if pre approved) ☒ Due Date: 1-DAY # of Days:		Standard ☐ Due Date:		Rush (only if pre approved) ☒ # of Days:		Standard ☐ Due Date:	
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials	
313416 - 01		SB-IRM2-103-SUBS		11/30/15 1630		Soil		BD	
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01		SB-IRM2-101-SUBS		11/30/15 1540		SO		BD	
- 05		SB-IRM2-102-SUBS		11/30/15 1610		SO		BD	
06		3179-113015-0002		11/30/15		SO		BD	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type O G		Preservative A	
Relinquished By: <i>[Signature]</i>		Date/Time: 11/30/15 1900		Received By: <i>[Signature]</i>		Date/Time: 11/30/15 1900		Date/Time: 12/1/15 0130	
Form No: 01-25 (rev. 30-Sept-2013)		Relinquished By: <i>[Signature]</i>		Date/Time: 12/1/15 0130		Received By: <i>[Signature]</i>		Date/Time: 12/1/15 0130	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 12/1/15		ALPHA Job # L1531346																																																																																																																																																																																																																																																																													
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APPENDIX E

Import Material Sample Laboratory Report



ANALYTICAL REPORT

Lab Number:	L1530885
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623-4264
ATTN:	Benjamin Drayn
Phone:	(585) 321-4245
Project Name:	PHILIPS BATH IRMS
Project Number:	34201-313
Report Date:	11/30/15

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Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530885
Report Date: 11/30/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1530885-01	IRM-BR-DISCRETE-01	SOIL	BATH, NY	11/23/15 16:07	11/23/15
L1530885-02	IRM-BR-DISCRETE-02	SOIL	BATH, NY	11/23/15 16:10	11/23/15
L1530885-03	IRM-BR-DISCRETE-03	SOIL	BATH, NY	11/23/15 16:12	11/23/15
L1530885-04	IRM-BR-DISCRETE-04	SOIL	BATH, NY	11/23/15 16:16	11/23/15
L1530885-05	IRM-BR-DISCRETE-05	SOIL	BATH, NY	11/23/15 16:20	11/23/15
L1530885-06	IRM-BR-COMPOSITE-01	SOIL	BATH, NY	11/23/15 16:00	11/23/15
L1530885-07	IRM-BR-COMPOSITE-02	SOIL	BATH, NY	11/23/15 16:05	11/23/15

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530885
Report Date: 11/30/15

Case Narrative

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

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

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

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

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530885
Report Date: 11/30/15

Case Narrative (continued)

Report Submission

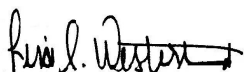
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

The WG844569-3 LCSD recoveries, associated with L1530885-06 and -07, are below the acceptance criteria for 2,4-dinitrophenol (0%) and benzoic acid (0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

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

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 11/30/15

ORGANICS

VOLATILES

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530885**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530885-01
Client ID: IRM-BR-DISCRETE-01
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/28/15 12:01
Analyst: BN
Percent Solids: 97%

Date Collected: 11/23/15 16:07
Date Received: 11/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.4	1.0	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.08	1
Chloroform	ND		ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.94	0.20	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.21	1
Dibromochloromethane	ND		ug/kg	0.94	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.94	0.13	1
Chlorobenzene	ND		ug/kg	0.94	0.33	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.36	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	0.94	0.10	1
Bromodichloromethane	ND		ug/kg	0.94	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.11	1
cis-1,3-Dichloropropene	ND		ug/kg	0.94	0.11	1
Bromoform	ND		ug/kg	3.8	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.94	0.10	1
Benzene	ND		ug/kg	0.94	0.11	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.94	0.12	1
Chloromethane	ND		ug/kg	4.7	0.28	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.11	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Trichloroethene	ND		ug/kg	0.94	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	4.7	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	4.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	4.7	0.13	1

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530885**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530885-01
 Client ID: IRM-BR-DISCRETE-01
 Sample Location: BATH, NY

Date Collected: 11/23/15 16:07
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.9	0.08	1
p/m-Xylene	ND		ug/kg	1.9	0.19	1
o-Xylene	ND		ug/kg	1.9	0.16	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.13	1
Styrene	ND		ug/kg	1.9	0.38	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.18	1
Acetone	ND		ug/kg	9.4	0.97	1
Carbon disulfide	ND		ug/kg	9.4	1.0	1
2-Butanone	ND		ug/kg	9.4	0.26	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	0.23	1
2-Hexanone	ND		ug/kg	9.4	0.63	1
Bromochloromethane	ND		ug/kg	4.7	0.26	1
1,2-Dibromoethane	ND		ug/kg	3.8	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	0.37	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.7	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.7	0.17	1
Methyl Acetate	ND		ug/kg	19	0.25	1
Cyclohexane	ND		ug/kg	19	0.14	1
1,4-Dioxane	ND		ug/kg	94	14.	1
Freon-113	ND		ug/kg	19	0.26	1
Methyl cyclohexane	ND		ug/kg	3.8	0.14	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	107		70-130

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530885**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530885-02
Client ID: IRM-BR-DISCRETE-02
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/29/15 14:14
Analyst: BN
Percent Solids: 94%

Date Collected: 11/23/15 16:10
Date Received: 11/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.7	0.85	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.07	1
Chloroform	ND		ug/kg	1.2	0.28	1
Carbon tetrachloride	ND		ug/kg	0.77	0.16	1
1,2-Dichloropropane	ND		ug/kg	2.7	0.18	1
Dibromochloromethane	ND		ug/kg	0.77	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.23	1
Tetrachloroethene	ND		ug/kg	0.77	0.11	1
Chlorobenzene	ND		ug/kg	0.77	0.27	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.30	1
1,2-Dichloroethane	ND		ug/kg	0.77	0.09	1
1,1,1-Trichloroethane	ND		ug/kg	0.77	0.09	1
Bromodichloromethane	ND		ug/kg	0.77	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	0.77	0.09	1
cis-1,3-Dichloropropene	ND		ug/kg	0.77	0.09	1
Bromoform	ND		ug/kg	3.1	0.18	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.77	0.08	1
Benzene	ND		ug/kg	0.77	0.09	1
Toluene	ND		ug/kg	1.2	0.15	1
Ethylbenzene	ND		ug/kg	0.77	0.10	1
Chloromethane	ND		ug/kg	3.8	0.23	1
Bromomethane	ND		ug/kg	1.5	0.26	1
Vinyl chloride	ND		ug/kg	1.5	0.09	1
Chloroethane	ND		ug/kg	1.5	0.24	1
1,1-Dichloroethene	ND		ug/kg	0.77	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.16	1
Trichloroethene	ND		ug/kg	0.77	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	3.8	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	3.8	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	3.8	0.11	1

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-02
 Client ID: IRM-BR-DISCRETE-02
 Sample Location: BATH, NY

Date Collected: 11/23/15 16:10
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.5	0.07	1
p/m-Xylene	ND		ug/kg	1.5	0.15	1
o-Xylene	ND		ug/kg	1.5	0.13	1
cis-1,2-Dichloroethene	ND		ug/kg	0.77	0.11	1
Styrene	ND		ug/kg	1.5	0.31	1
Dichlorodifluoromethane	ND		ug/kg	7.7	0.15	1
Acetone	8.4		ug/kg	7.7	0.80	1
Carbon disulfide	ND		ug/kg	7.7	0.85	1
2-Butanone	ND		ug/kg	7.7	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	7.7	0.19	1
2-Hexanone	ND		ug/kg	7.7	0.51	1
Bromochloromethane	ND		ug/kg	3.8	0.21	1
1,2-Dibromoethane	ND		ug/kg	3.1	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	0.30	1
Isopropylbenzene	ND		ug/kg	0.77	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.8	0.11	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.8	0.14	1
Methyl Acetate	ND		ug/kg	15	0.21	1
Cyclohexane	ND		ug/kg	15	0.11	1
1,4-Dioxane	ND		ug/kg	77	11.	1
Freon-113	ND		ug/kg	15	0.21	1
Methyl cyclohexane	ND		ug/kg	3.1	0.12	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	109		70-130

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530885**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530885-03
Client ID: IRM-BR-DISCRETE-03
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/28/15 12:55
Analyst: BN
Percent Solids: 95%

Date Collected: 11/23/15 16:12
Date Received: 11/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.2	0.80	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.06	1
Chloroform	ND		ug/kg	1.1	0.27	1
Carbon tetrachloride	ND		ug/kg	0.72	0.15	1
1,2-Dichloropropane	ND		ug/kg	2.5	0.16	1
Dibromochloromethane	ND		ug/kg	0.72	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.22	1
Tetrachloroethene	ND		ug/kg	0.72	0.10	1
Chlorobenzene	ND		ug/kg	0.72	0.25	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.28	1
1,2-Dichloroethane	ND		ug/kg	0.72	0.08	1
1,1,1-Trichloroethane	ND		ug/kg	0.72	0.08	1
Bromodichloromethane	ND		ug/kg	0.72	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	0.72	0.09	1
cis-1,3-Dichloropropene	ND		ug/kg	0.72	0.09	1
Bromoform	ND		ug/kg	2.9	0.17	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.72	0.07	1
Benzene	ND		ug/kg	0.72	0.09	1
Toluene	ND		ug/kg	1.1	0.14	1
Ethylbenzene	ND		ug/kg	0.72	0.09	1
Chloromethane	ND		ug/kg	3.6	0.21	1
Bromomethane	ND		ug/kg	1.4	0.24	1
Vinyl chloride	ND		ug/kg	1.4	0.09	1
Chloroethane	ND		ug/kg	1.4	0.23	1
1,1-Dichloroethene	ND		ug/kg	0.72	0.19	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.15	1
Trichloroethene	ND		ug/kg	0.72	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	3.6	0.11	1
1,3-Dichlorobenzene	ND		ug/kg	3.6	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	3.6	0.10	1

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530885**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530885-03
 Client ID: IRM-BR-DISCRETE-03
 Sample Location: BATH, NY

Date Collected: 11/23/15 16:12
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.4	0.06	1
p/m-Xylene	ND		ug/kg	1.4	0.14	1
o-Xylene	ND		ug/kg	1.4	0.12	1
cis-1,2-Dichloroethene	ND		ug/kg	0.72	0.10	1
Styrene	ND		ug/kg	1.4	0.29	1
Dichlorodifluoromethane	ND		ug/kg	7.2	0.14	1
Acetone	5.8	J	ug/kg	7.2	0.75	1
Carbon disulfide	ND		ug/kg	7.2	0.80	1
2-Butanone	ND		ug/kg	7.2	0.20	1
4-Methyl-2-pentanone	ND		ug/kg	7.2	0.18	1
2-Hexanone	ND		ug/kg	7.2	0.48	1
Bromochloromethane	ND		ug/kg	3.6	0.20	1
1,2-Dibromoethane	ND		ug/kg	2.9	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	0.29	1
Isopropylbenzene	ND		ug/kg	0.72	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.6	0.11	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.6	0.13	1
Methyl Acetate	ND		ug/kg	14	0.20	1
Cyclohexane	ND		ug/kg	14	0.10	1
1,4-Dioxane	ND		ug/kg	72	10.	1
Freon-113	ND		ug/kg	14	0.20	1
Methyl cyclohexane	ND		ug/kg	2.9	0.11	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	107		70-130

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530885**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530885-04
Client ID: IRM-BR-DISCRETE-04
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/28/15 13:22
Analyst: BN
Percent Solids: 95%

Date Collected: 11/23/15 16:16
Date Received: 11/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	1.5	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.12	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.3	0.28	1
1,2-Dichloropropane	ND		ug/kg	4.7	0.31	1
Dibromochloromethane	ND		ug/kg	1.3	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.41	1
Tetrachloroethene	ND		ug/kg	1.3	0.19	1
Chlorobenzene	ND		ug/kg	1.3	0.47	1
Trichlorofluoromethane	ND		ug/kg	6.7	0.52	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.15	1
Bromodichloromethane	ND		ug/kg	1.3	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.16	1
Bromoform	ND		ug/kg	5.4	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.14	1
Benzene	ND		ug/kg	1.3	0.16	1
Toluene	ND		ug/kg	2.0	0.26	1
Ethylbenzene	ND		ug/kg	1.3	0.17	1
Chloromethane	ND		ug/kg	6.7	0.40	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.16	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.29	1
Trichloroethene	ND		ug/kg	1.3	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	6.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	6.7	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	6.7	0.19	1

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-04
 Client ID: IRM-BR-DISCRETE-04
 Sample Location: BATH, NY

Date Collected: 11/23/15 16:16
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.7	0.11	1
p/m-Xylene	ND		ug/kg	2.7	0.27	1
o-Xylene	ND		ug/kg	2.7	0.23	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.19	1
Styrene	ND		ug/kg	2.7	0.54	1
Dichlorodifluoromethane	ND		ug/kg	13	0.26	1
Acetone	18		ug/kg	13	1.4	1
Carbon disulfide	ND		ug/kg	13	1.5	1
2-Butanone	ND		ug/kg	13	0.37	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.33	1
2-Hexanone	ND		ug/kg	13	0.90	1
Bromochloromethane	ND		ug/kg	6.7	0.37	1
1,2-Dibromoethane	ND		ug/kg	5.4	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.7	0.53	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.7	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.7	0.24	1
Methyl Acetate	ND		ug/kg	27	0.36	1
Cyclohexane	ND		ug/kg	27	0.20	1
1,4-Dioxane	ND		ug/kg	130	19.	1
Freon-113	ND		ug/kg	27	0.37	1
Methyl cyclohexane	ND		ug/kg	5.4	0.21	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	111		70-130

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-05
 Client ID: IRM-BR-DISCRETE-05
 Sample Location: BATH, NY
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 11/28/15 13:49
 Analyst: BN
 Percent Solids: 96%

Date Collected: 11/23/15 16:20
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.0	0.89	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.07	1
Chloroform	ND		ug/kg	1.2	0.30	1
Carbon tetrachloride	ND		ug/kg	0.80	0.17	1
1,2-Dichloropropane	ND		ug/kg	2.8	0.18	1
Dibromochloromethane	ND		ug/kg	0.80	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.24	1
Tetrachloroethene	ND		ug/kg	0.80	0.11	1
Chlorobenzene	ND		ug/kg	0.80	0.28	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.31	1
1,2-Dichloroethane	ND		ug/kg	0.80	0.09	1
1,1,1-Trichloroethane	ND		ug/kg	0.80	0.09	1
Bromodichloromethane	ND		ug/kg	0.80	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	0.80	0.10	1
cis-1,3-Dichloropropene	ND		ug/kg	0.80	0.10	1
Bromoform	ND		ug/kg	3.2	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.80	0.08	1
Benzene	ND		ug/kg	0.80	0.10	1
Toluene	ND		ug/kg	1.2	0.16	1
Ethylbenzene	ND		ug/kg	0.80	0.10	1
Chloromethane	ND		ug/kg	4.0	0.24	1
Bromomethane	ND		ug/kg	1.6	0.27	1
Vinyl chloride	ND		ug/kg	1.6	0.09	1
Chloroethane	ND		ug/kg	1.6	0.25	1
1,1-Dichloroethene	ND		ug/kg	0.80	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Trichloroethene	ND		ug/kg	0.80	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	4.0	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	4.0	0.11	1

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-05
 Client ID: IRM-BR-DISCRETE-05
 Sample Location: BATH, NY

Date Collected: 11/23/15 16:20
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.6	0.07	1
p/m-Xylene	ND		ug/kg	1.6	0.16	1
o-Xylene	ND		ug/kg	1.6	0.14	1
cis-1,2-Dichloroethene	ND		ug/kg	0.80	0.12	1
Styrene	ND		ug/kg	1.6	0.32	1
Dichlorodifluoromethane	ND		ug/kg	8.0	0.15	1
Acetone	ND		ug/kg	8.0	0.83	1
Carbon disulfide	ND		ug/kg	8.0	0.89	1
2-Butanone	ND		ug/kg	8.0	0.22	1
4-Methyl-2-pentanone	ND		ug/kg	8.0	0.20	1
2-Hexanone	ND		ug/kg	8.0	0.54	1
Bromochloromethane	ND		ug/kg	4.0	0.22	1
1,2-Dibromoethane	ND		ug/kg	3.2	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	0.32	1
Isopropylbenzene	ND		ug/kg	0.80	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	0.12	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	0.15	1
Methyl Acetate	ND		ug/kg	16	0.22	1
Cyclohexane	ND		ug/kg	16	0.12	1
1,4-Dioxane	ND		ug/kg	80	12.	1
Freon-113	ND		ug/kg	16	0.22	1
Methyl cyclohexane	ND		ug/kg	3.2	0.12	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	110		70-130

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/28/15 11:06
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-05 Batch: WG844976-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/28/15 11:06
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-05 Batch: WG844976-3					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Tentatively Identified Compounds

No Tentatively Identified Compounds

ND

ug/kg

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 11/28/15 11:06

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-05 Batch: WG844976-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/29/15 10:12
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG845023-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/29/15 10:12
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG845023-3					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 11/29/15 10:12

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG845023-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	82		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-05 Batch: WG844976-1 WG844976-2								
Methylene chloride	100		102		70-130	2		30
1,1-Dichloroethane	100		101		70-130	1		30
Chloroform	101		99		70-130	2		30
Carbon tetrachloride	99		98		70-130	1		30
1,2-Dichloropropane	102		104		70-130	2		30
Dibromochloromethane	96		98		70-130	2		30
2-Chloroethylvinyl ether	87		107		70-130	21		30
1,1,2-Trichloroethane	96		95		70-130	1		30
Tetrachloroethene	103		96		70-130	7		30
Chlorobenzene	95		96		70-130	1		30
Trichlorofluoromethane	90		88		70-139	2		30
1,2-Dichloroethane	101		105		70-130	4		30
1,1,1-Trichloroethane	100		99		70-130	1		30
Bromodichloromethane	101		101		70-130	0		30
trans-1,3-Dichloropropene	99		98		70-130	1		30
cis-1,3-Dichloropropene	93		106		70-130	13		30
1,1-Dichloropropene	100		98		70-130	2		30
Bromoform	96		100		70-130	4		30
1,1,2,2-Tetrachloroethane	96		95		70-130	1		30
Benzene	101		102		70-130	1		30
Toluene	93		99		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-05 Batch: WG844976-1 WG844976-2								
Ethylbenzene	95		94		70-130	1		30
Chloromethane	101		100		52-130	1		30
Bromomethane	103		105		57-147	2		30
Vinyl chloride	110		108		67-130	2		30
Chloroethane	99		99		50-151	0		30
1,1-Dichloroethene	100		99		65-135	1		30
trans-1,2-Dichloroethene	100		100		70-130	0		30
Trichloroethene	101		101		70-130	0		30
1,2-Dichlorobenzene	102		94		70-130	8		30
1,3-Dichlorobenzene	95		94		70-130	1		30
1,4-Dichlorobenzene	94		93		70-130	1		30
Methyl tert butyl ether	99		104		66-130	5		30
p/m-Xylene	99		93		70-130	6		30
o-Xylene	99		100		70-130	1		30
cis-1,2-Dichloroethene	100		101		70-130	1		30
Dibromomethane	105		108		70-130	3		30
Styrene	99		102		70-130	3		30
Dichlorodifluoromethane	104		99		30-146	5		30
Acetone	103		110		54-140	7		30
Carbon disulfide	96		93		59-130	3		30
2-Butanone	109		114		70-130	4		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-05 Batch: WG844976-1 WG844976-2								
Vinyl acetate	107		112		70-130	5		30
4-Methyl-2-pentanone	83		90		70-130	8		30
1,2,3-Trichloropropane	94		99		68-130	5		30
2-Hexanone	90		93		70-130	3		30
Bromochloromethane	108		111		70-130	3		30
2,2-Dichloropropane	105		102		70-130	3		30
1,2-Dibromoethane	98		100		70-130	2		30
1,3-Dichloropropane	95		96		69-130	1		30
1,1,1,2-Tetrachloroethane	100		98		70-130	2		30
Bromobenzene	95		92		70-130	3		30
n-Butylbenzene	97		89		70-130	9		30
sec-Butylbenzene	95		90		70-130	5		30
tert-Butylbenzene	95		91		70-130	4		30
o-Chlorotoluene	96		91		70-130	5		30
p-Chlorotoluene	93		90		70-130	3		30
1,2-Dibromo-3-chloropropane	99		105		68-130	6		30
Hexachlorobutadiene	103		99		67-130	4		30
Isopropylbenzene	97		94		70-130	3		30
p-Isopropyltoluene	100		94		70-130	6		30
Naphthalene	104		108		70-130	4		30
Acrylonitrile	105		113		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-05 Batch: WG844976-1 WG844976-2								
Isopropyl Ether	99		102		66-130	3		30
tert-Butyl Alcohol	104		115		70-130	10		30
n-Propylbenzene	92		86		70-130	7		30
1,2,3-Trichlorobenzene	105		105		70-130	0		30
1,2,4-Trichlorobenzene	104		102		70-130	2		30
1,3,5-Trimethylbenzene	97		94		70-130	3		30
1,2,4-Trimethylbenzene	97		93		70-130	4		30
Methyl Acetate	101		112		51-146	10		30
Ethyl Acetate	105		115		70-130	9		30
Acrolein	97		108		70-130	11		30
Cyclohexane	101		98		59-142	3		30
1,4-Dioxane	91		110		65-136	19		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	103		98		50-139	5		30
p-Diethylbenzene	94		90		70-130	4		30
p-Ethyltoluene	96		92		70-130	4		30
1,2,4,5-Tetramethylbenzene	105		103		70-130	2		30
Tetrahydrofuran	108		120		66-130	11		30
Ethyl ether	92		104		67-130	12		30
trans-1,4-Dichloro-2-butene	94		96		70-130	2		30
Methyl cyclohexane	105		100		70-130	5		30
Ethyl-Tert-Butyl-Ether	100		103		70-130	3		30

Lab Control Sample Analysis Batch Quality Control

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-05 Batch: WG844976-1 WG844976-2								
Tertiary-Amyl Methyl Ether	100		105		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		102		70-130
Toluene-d8	97		104		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	102		102		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG845023-1 WG845023-2								
Methylene chloride	116		123		70-130	6		30
1,1-Dichloroethane	126		127		70-130	1		30
Chloroform	121		119		70-130	2		30
Carbon tetrachloride	126		121		70-130	4		30
1,2-Dichloropropane	112		99		70-130	12		30
Dibromochloromethane	103		107		70-130	4		30
2-Chloroethylvinyl ether	112		100		70-130	11		30
1,1,2-Trichloroethane	102		100		70-130	2		30
Tetrachloroethene	109		105		70-130	4		30
Chlorobenzene	104		100		70-130	4		30
Trichlorofluoromethane	132		129		70-139	2		30
1,2-Dichloroethane	127		125		70-130	2		30
1,1,1-Trichloroethane	124		120		70-130	3		30
Bromodichloromethane	121		111		70-130	9		30
trans-1,3-Dichloropropene	105		106		70-130	1		30
cis-1,3-Dichloropropene	118		105		70-130	12		30
1,1-Dichloropropene	115		110		70-130	4		30
Bromoform	100		100		70-130	0		30
1,1,2,2-Tetrachloroethane	94		91		70-130	3		30
Benzene	113		106		70-130	6		30
Toluene	100		96		70-130	4		30

Lab Control Sample Analysis Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG845023-1 WG845023-2								
Ethylbenzene	104		100		70-130	4		30
Chloromethane	94		96		52-130	2		30
Bromomethane	129		143		57-147	10		30
Vinyl chloride	93		96		67-130	3		30
Chloroethane	147		147		50-151	0		30
1,1-Dichloroethene	119		123		65-135	3		30
trans-1,2-Dichloroethene	114		120		70-130	5		30
Trichloroethene	118		113		70-130	4		30
1,2-Dichlorobenzene	99		97		70-130	2		30
1,3-Dichlorobenzene	102		99		70-130	3		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	118		126		66-130	7		30
p/m-Xylene	109		104		70-130	5		30
o-Xylene	109		104		70-130	5		30
cis-1,2-Dichloroethene	112		118		70-130	5		30
Dibromomethane	119		108		70-130	10		30
Styrene	108		105		70-130	3		30
Dichlorodifluoromethane	114		111		30-146	3		30
Acetone	140		151	Q	54-140	8		30
Carbon disulfide	119		116		59-130	3		30
2-Butanone	112		127		70-130	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG845023-1 WG845023-2								
Vinyl acetate	128		152	Q	70-130	17		30
4-Methyl-2-pentanone	98		98		70-130	0		30
1,2,3-Trichloropropane	95		95		68-130	0		30
2-Hexanone	100		102		70-130	2		30
Bromochloromethane	120		123		70-130	2		30
2,2-Dichloropropane	127		126		70-130	1		30
1,2-Dibromoethane	105		105		70-130	0		30
1,3-Dichloropropane	102		98		69-130	4		30
1,1,1,2-Tetrachloroethane	109		109		70-130	0		30
Bromobenzene	99		99		70-130	0		30
n-Butylbenzene	104		96		70-130	8		30
sec-Butylbenzene	102		96		70-130	6		30
tert-Butylbenzene	102		98		70-130	4		30
o-Chlorotoluene	100		95		70-130	5		30
p-Chlorotoluene	100		96		70-130	4		30
1,2-Dibromo-3-chloropropane	93		95		68-130	2		30
Hexachlorobutadiene	100		101		67-130	1		30
Isopropylbenzene	98		95		70-130	3		30
p-Isopropyltoluene	101		100		70-130	1		30
Naphthalene	92		94		70-130	2		30
Acrylonitrile	131	Q	139	Q	70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG845023-1 WG845023-2								
Isopropyl Ether	133	Q	138	Q	66-130	4		30
tert-Butyl Alcohol	118		131	Q	70-130	10		30
n-Propylbenzene	98		93		70-130	5		30
1,2,3-Trichlorobenzene	95		97		70-130	2		30
1,2,4-Trichlorobenzene	97		98		70-130	1		30
1,3,5-Trimethylbenzene	101		98		70-130	3		30
1,2,4-Trimethylbenzene	102		99		70-130	3		30
Methyl Acetate	132		144		51-146	9		30
Ethyl Acetate	120		119		70-130	1		30
Acrolein	117		124		70-130	6		30
Cyclohexane	120		112		59-142	7		30
1,4-Dioxane	98		93		65-136	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	125		124		50-139	1		30
p-Diethylbenzene	100		96		70-130	4		30
p-Ethyltoluene	98		96		70-130	2		30
1,2,4,5-Tetramethylbenzene	100		98		70-130	2		30
Tetrahydrofuran	114		126		66-130	10		30
Ethyl ether	115		126		67-130	9		30
trans-1,4-Dichloro-2-butene	108		108		70-130	0		30
Methyl cyclohexane	115		108		70-130	6		30
Ethyl-Tert-Butyl-Ether	117		132	Q	70-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG845023-1 WG845023-2								
Tertiary-Amyl Methyl Ether	111		114		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		111		70-130
Toluene-d8	91		95		70-130
4-Bromofluorobenzene	94		95		70-130
Dibromofluoromethane	105		109		70-130

SEMIVOLATILES

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530885**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530885-06
Client ID: IRM-BR-COMPOSITE-01
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/28/15 21:30
Analyst: KR
Percent Solids: 95%

Date Collected: 11/23/15 16:00
Date Received: 11/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/26/15 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	36.	1
Hexachlorobenzene	ND		ug/kg	100	32.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	48.	1
2-Chloronaphthalene	ND		ug/kg	170	56.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	37.	1
2,6-Dinitrotoluene	ND		ug/kg	170	44.	1
Fluoranthene	ND		ug/kg	100	32.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	53.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	40.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	61.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	52.	1
Hexachlorobutadiene	ND		ug/kg	170	49.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	110	1
Hexachloroethane	ND		ug/kg	140	31.	1
Isophorone	ND		ug/kg	160	46.	1
Naphthalene	ND		ug/kg	170	58.	1
Nitrobenzene	ND		ug/kg	160	41.	1
NDPA/DPA	ND		ug/kg	140	36.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	52.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	45.	1
Butyl benzyl phthalate	ND		ug/kg	170	34.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	43.	1
Diethyl phthalate	ND		ug/kg	170	37.	1
Dimethyl phthalate	ND		ug/kg	170	44.	1
Benzo(a)anthracene	ND		ug/kg	100	34.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	35.	1
Benzo(k)fluoranthene	ND		ug/kg	100	33.	1

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-06

Date Collected: 11/23/15 16:00

Client ID: IRM-BR-COMPOSITE-01

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	100	34.	1
Acenaphthylene	ND		ug/kg	140	32.	1
Anthracene	ND		ug/kg	100	29.	1
Benzo(ghi)perylene	ND		ug/kg	140	36.	1
Fluorene	ND		ug/kg	170	50.	1
Phenanthrene	ND		ug/kg	100	34.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	34.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	38.	1
Pyrene	ND		ug/kg	100	34.	1
Biphenyl	ND		ug/kg	390	57.	1
4-Chloroaniline	ND		ug/kg	170	46.	1
2-Nitroaniline	ND		ug/kg	170	49.	1
3-Nitroaniline	ND		ug/kg	170	48.	1
4-Nitroaniline	ND		ug/kg	170	47.	1
Dibenzofuran	ND		ug/kg	170	58.	1
2-Methylnaphthalene	ND		ug/kg	210	55.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	54.	1
Acetophenone	ND		ug/kg	170	54.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	50.	1
2-Chlorophenol	ND		ug/kg	170	52.	1
2,4-Dichlorophenol	ND		ug/kg	160	56.	1
2,4-Dimethylphenol	ND		ug/kg	170	52.	1
2-Nitrophenol	ND		ug/kg	370	54.	1
4-Nitrophenol	ND		ug/kg	240	56.	1
2,4-Dinitrophenol	ND		ug/kg	830	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	63.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	51.	1
2-Methylphenol	ND		ug/kg	170	56.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	57.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	56.	1
Carbazole	ND		ug/kg	170	37.	1
Benzaldehyde	ND		ug/kg	230	70.	1
Caprolactam	ND		ug/kg	170	48.	1
Atrazine	ND		ug/kg	140	39.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	29.	1

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530885**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530885-06

Date Collected: 11/23/15 16:00

Client ID: IRM-BR-COMPOSITE-01

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	99		18-120

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530885**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530885-07
Client ID: IRM-BR-COMPOSITE-02
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/28/15 21:57
Analyst: KR
Percent Solids: 96%

Date Collected: 11/23/15 16:05
Date Received: 11/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/26/15 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	36.	1
Hexachlorobenzene	ND		ug/kg	100	32.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	48.	1
2-Chloronaphthalene	ND		ug/kg	170	56.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	37.	1
2,6-Dinitrotoluene	ND		ug/kg	170	44.	1
Fluoranthene	ND		ug/kg	100	32.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	52.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	40.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	61.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	52.	1
Hexachlorobutadiene	ND		ug/kg	170	49.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	110	1
Hexachloroethane	ND		ug/kg	140	31.	1
Isophorone	ND		ug/kg	160	46.	1
Naphthalene	ND		ug/kg	170	57.	1
Nitrobenzene	ND		ug/kg	160	41.	1
NDPA/DPA	ND		ug/kg	140	36.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	52.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	45.	1
Butyl benzyl phthalate	ND		ug/kg	170	34.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	42.	1
Diethyl phthalate	ND		ug/kg	170	36.	1
Dimethyl phthalate	ND		ug/kg	170	44.	1
Benzo(a)anthracene	ND		ug/kg	100	34.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	35.	1
Benzo(k)fluoranthene	ND		ug/kg	100	33.	1

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-07

Date Collected: 11/23/15 16:05

Client ID: IRM-BR-COMPOSITE-02

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	100	34.	1
Acenaphthylene	ND		ug/kg	140	32.	1
Anthracene	ND		ug/kg	100	29.	1
Benzo(ghi)perylene	ND		ug/kg	140	36.	1
Fluorene	ND		ug/kg	170	50.	1
Phenanthrene	ND		ug/kg	100	34.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	33.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	38.	1
Pyrene	ND		ug/kg	100	34.	1
Biphenyl	ND		ug/kg	390	57.	1
4-Chloroaniline	ND		ug/kg	170	46.	1
2-Nitroaniline	ND		ug/kg	170	49.	1
3-Nitroaniline	ND		ug/kg	170	48.	1
4-Nitroaniline	ND		ug/kg	170	47.	1
Dibenzofuran	ND		ug/kg	170	58.	1
2-Methylnaphthalene	ND		ug/kg	210	55.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	54.	1
Acetophenone	ND		ug/kg	170	54.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	50.	1
2-Chlorophenol	ND		ug/kg	170	52.	1
2,4-Dichlorophenol	ND		ug/kg	160	56.	1
2,4-Dimethylphenol	ND		ug/kg	170	52.	1
2-Nitrophenol	ND		ug/kg	370	54.	1
4-Nitrophenol	ND		ug/kg	240	56.	1
2,4-Dinitrophenol	ND		ug/kg	830	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	63.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	51.	1
2-Methylphenol	ND		ug/kg	170	56.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	57.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	56.	1
Carbazole	ND		ug/kg	170	37.	1
Benzaldehyde	ND		ug/kg	230	70.	1
Caprolactam	ND		ug/kg	170	48.	1
Atrazine	ND		ug/kg	140	39.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	29.	1

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530885**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530885-07

Date Collected: 11/23/15 16:05

Client ID: IRM-BR-COMPOSITE-02

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	97		18-120

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 11/28/15 14:13
 Analyst: KR

Extraction Method: EPA 3546
 Extraction Date: 11/26/15 02:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-07 Batch: WG844569-1					
Acenaphthene	ND		ug/kg	130	33.
Hexachlorobenzene	ND		ug/kg	97	30.
Bis(2-chloroethyl)ether	ND		ug/kg	140	45.
2-Chloronaphthalene	ND		ug/kg	160	53.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	41.
Fluoranthene	ND		ug/kg	97	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	49.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	460	100
Hexachloroethane	ND		ug/kg	130	29.
Isophorone	ND		ug/kg	140	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	140	38.
NDPA/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	42.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	97	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	33.

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 11/28/15 14:13
 Analyst: KR

Extraction Method: EPA 3546
 Extraction Date: 11/26/15 02:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-07 Batch: WG844569-1					
Benzo(k)fluoranthene	ND		ug/kg	97	31.
Chrysene	ND		ug/kg	97	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	97	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	46.
Phenanthrene	ND		ug/kg	97	32.
Dibenzo(a,h)anthracene	ND		ug/kg	97	31.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	97	31.
Biphenyl	ND		ug/kg	370	53.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	44.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	190	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	97	30.
p-Chloro-m-cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	140	52.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	50.
4-Nitrophenol	ND		ug/kg	230	52.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	59.
Pentachlorophenol	ND		ug/kg	130	34.

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 11/28/15 14:13
 Analyst: KR

Extraction Method: EPA 3546
 Extraction Date: 11/26/15 02:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-07 Batch: WG844569-1					
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	52.
Carbazole	ND		ug/kg	160	35.
Benzaldehyde	ND		ug/kg	210	65.
Caprolactam	ND		ug/kg	160	44.
Atrazine	ND		ug/kg	130	36.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	27.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	93		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-07 Batch: WG844569-2 WG844569-3								
Acenaphthene	90		69		31-137	26		50
Benzidine	33		21		10-66	44		50
n-Nitrosodimethylamine	74		58		22-100	24		50
1,2,4-Trichlorobenzene	83		65		38-107	24		50
Hexachlorobenzene	93		72		40-140	25		50
Bis(2-chloroethyl)ether	74		58		40-140	24		50
2-Chloronaphthalene	91		70		40-140	26		50
1,2-Dichlorobenzene	79		62		40-140	24		50
1,3-Dichlorobenzene	77		62		40-140	22		50
1,4-Dichlorobenzene	78		63		28-104	21		50
3,3'-Dichlorobenzidine	79		62		40-140	24		50
2,4-Dinitrotoluene	100	Q	76		28-89	27		50
2,6-Dinitrotoluene	98		75		40-140	27		50
Fluoranthene	100		76		40-140	27		50
4-Chlorophenyl phenyl ether	90		70		40-140	25		50
4-Bromophenyl phenyl ether	92		71		40-140	26		50
Azobenzene	81		63		40-140	25		50
Bis(2-chloroisopropyl)ether	58		47		40-140	21		50
Bis(2-chloroethoxy)methane	82		64		40-117	25		50
Hexachlorobutadiene	83		66		40-140	23		50
Hexachlorocyclopentadiene	75		61		40-140	21		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-07 Batch: WG844569-2 WG844569-3								
Hexachloroethane	75		59		40-140	24		50
Isophorone	83		65		40-140	24		50
Naphthalene	85		66		40-140	25		50
Nitrobenzene	73		58		40-140	23		50
NitrosoDiPhenylAmine(NDPA)/DPA	93		71		36-157	27		50
n-Nitrosodi-n-propylamine	79		62		32-121	24		50
Bis(2-Ethylhexyl)phthalate	99		78		40-140	24		50
Butyl benzyl phthalate	107		84		40-140	24		50
Di-n-butylphthalate	101		79		40-140	24		50
Di-n-octylphthalate	102		82		40-140	22		50
Diethyl phthalate	92		71		40-140	26		50
Dimethyl phthalate	93		72		40-140	25		50
Benzo(a)anthracene	93		72		40-140	25		50
Benzo(a)pyrene	97		75		40-140	26		50
Benzo(b)fluoranthene	92		72		40-140	24		50
Benzo(k)fluoranthene	95		72		40-140	28		50
Chrysene	93		69		40-140	30		50
Acenaphthylene	96		74		40-140	26		50
Anthracene	97		75		40-140	26		50
Benzo(ghi)perylene	98		76		40-140	25		50
Fluorene	92		70		40-140	27		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-07 Batch: WG844569-2 WG844569-3								
Phenanthrene	92		71		40-140	26		50
Dibenzo(a,h)anthracene	100		76		40-140	27		50
Indeno(1,2,3-cd)Pyrene	102		79		40-140	25		50
Pyrene	99		76		35-142	26		50
Biphenyl	90		69		54-104	26		50
Aniline	55		43		40-140	24		50
4-Chloroaniline	74		60		40-140	21		50
2-Nitroaniline	100		76		47-134	27		50
3-Nitroaniline	87		65		26-129	29		50
4-Nitroaniline	98		72		41-125	31		50
Dibenzofuran	93		71		40-140	27		50
2-Methylnaphthalene	92		73		40-140	23		50
1,2,4,5-Tetrachlorobenzene	85		67		40-117	24		50
Acetophenone	91		72		14-144	23		50
2,4,6-Trichlorophenol	98		74		30-130	28		50
P-Chloro-M-Cresol	99		76		26-103	26		50
2-Chlorophenol	88		67		25-102	27		50
2,4-Dichlorophenol	93		72		30-130	25		50
2,4-Dimethylphenol	90		73		30-130	21		50
2-Nitrophenol	92		72		30-130	24		50
4-Nitrophenol	100		75		11-114	29		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-07 Batch: WG844569-2 WG844569-3								
2,4-Dinitrophenol	20		0	Q	4-130	NC		50
4,6-Dinitro-o-cresol	67		29		10-130	79	Q	50
Pentachlorophenol	84		55		17-109	42		50
Phenol	80		61		26-90	27		50
2-Methylphenol	91		71		30-130	25		50
3-Methylphenol/4-Methylphenol	94		71		30-130	28		50
2,4,5-Trichlorophenol	100		74		30-130	30		50
Benzoic Acid	10		0	Q	10-66	NC		50
Benzyl Alcohol	89		69		40-140	25		50
Carbazole	99		75		54-128	28		50
Benzaldehyde	84		68		40-140	21		50
Caprolactam	84		67		15-130	23		50
Atrazine	105		80		40-140	27		50
2,3,4,6-Tetrachlorophenol	94		70		40-140	29		50
Pyridine	48		40		10-93	18		50
Parathion, ethyl	104		81		40-140	25		50
1-Methylnaphthalene	86		68		26-130	23		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-07 Batch: WG844569-2 WG844569-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		56		25-120
Phenol-d6	84		65		10-120
Nitrobenzene-d5	79		61		23-120
2-Fluorobiphenyl	91		70		30-120
2,4,6-Tribromophenol	99		77		10-136
4-Terphenyl-d14	97		76		18-120

PCBS

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530885
Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-06
Client ID: IRM-BR-COMPOSITE-01
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 01:00
Analyst: JT
Percent Solids: 95%

Date Collected: 11/23/15 16:00
Date Received: 11/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/25/15 14:20
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.3	2.71	1	A
Aroclor 1221	ND		ug/kg	34.3	3.17	1	A
Aroclor 1232	ND		ug/kg	34.3	4.02	1	A
Aroclor 1242	ND		ug/kg	34.3	4.20	1	A
Aroclor 1248	ND		ug/kg	34.3	2.90	1	A
Aroclor 1254	ND		ug/kg	34.3	2.82	1	A
Aroclor 1260	ND		ug/kg	34.3	2.62	1	A
Aroclor 1262	ND		ug/kg	34.3	1.70	1	A
Aroclor 1268	ND		ug/kg	34.3	4.98	1	A
PCBs, Total	ND		ug/kg	34.3	1.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530885
Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-07
Client ID: IRM-BR-COMPOSITE-02
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 01:16
Analyst: JT
Percent Solids: 96%

Date Collected: 11/23/15 16:05
Date Received: 11/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/25/15 14:20
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	2.74	1	A
Aroclor 1221	ND		ug/kg	34.7	3.20	1	A
Aroclor 1232	ND		ug/kg	34.7	4.06	1	A
Aroclor 1242	ND		ug/kg	34.7	4.24	1	A
Aroclor 1248	ND		ug/kg	34.7	2.93	1	A
Aroclor 1254	ND		ug/kg	34.7	2.85	1	A
Aroclor 1260	ND		ug/kg	34.7	2.64	1	A
Aroclor 1262	ND		ug/kg	34.7	1.72	1	A
Aroclor 1268	ND		ug/kg	34.7	5.03	1	A
PCBs, Total	ND		ug/kg	34.7	1.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 11/27/15 23:55
 Analyst: JT

Extraction Method: EPA 3546
 Extraction Date: 11/25/15 14:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/27/15
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 06-07 Batch: WG844412-1						
Aroclor 1016	ND		ug/kg	32.7	2.59	A
Aroclor 1221	ND		ug/kg	32.7	3.02	A
Aroclor 1232	ND		ug/kg	32.7	3.84	A
Aroclor 1242	ND		ug/kg	32.7	4.01	A
Aroclor 1248	ND		ug/kg	32.7	2.76	A
Aroclor 1254	ND		ug/kg	32.7	2.69	A
Aroclor 1260	ND		ug/kg	32.7	2.50	A
Aroclor 1262	ND		ug/kg	32.7	1.62	A
Aroclor 1268	ND		ug/kg	32.7	4.75	A
PCBs, Total	ND		ug/kg	32.7	1.62	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	90		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06-07 Batch: WG844412-2 WG844412-3									
Aroclor 1016	74		74		40-140	0		50	A
Aroclor 1260	72		75		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		96		30-150	A
Decachlorobiphenyl	75		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		101		30-150	B
Decachlorobiphenyl	85		93		30-150	B

PESTICIDES

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530885**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530885-06
Client ID: IRM-BR-COMPOSITE-01
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/28/15 11:22
Analyst: KE
Percent Solids: 95%

Date Collected: 11/23/15 16:00
Date Received: 11/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/26/15 04:28
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.326	1	A
Lindane	ND		ug/kg	0.693	0.310	1	A
Alpha-BHC	ND		ug/kg	0.693	0.197	1	A
Beta-BHC	ND		ug/kg	1.66	0.631	1	A
Heptachlor	ND		ug/kg	0.832	0.373	1	A
Aldrin	ND		ug/kg	1.66	0.586	1	A
Heptachlor epoxide	ND		ug/kg	3.12	0.936	1	A
Endrin	ND		ug/kg	0.693	0.284	1	A
Endrin aldehyde	ND		ug/kg	2.08	0.728	1	A
Endrin ketone	ND		ug/kg	1.66	0.428	1	A
Dieldrin	ND		ug/kg	1.04	0.520	1	A
4,4'-DDE	ND		ug/kg	1.66	0.385	1	A
4,4'-DDD	ND		ug/kg	1.66	0.593	1	A
4,4'-DDT	ND		ug/kg	3.12	1.34	1	A
Endosulfan I	ND		ug/kg	1.66	0.393	1	A
Endosulfan II	ND		ug/kg	1.66	0.556	1	A
Endosulfan sulfate	ND		ug/kg	0.693	0.330	1	A
Methoxychlor	ND		ug/kg	3.12	0.970	1	A
Toxaphene	ND		ug/kg	31.2	8.74	1	A
cis-Chlordane	ND		ug/kg	2.08	0.580	1	A
trans-Chlordane	ND		ug/kg	2.08	0.549	1	A
Chlordane	ND		ug/kg	13.5	5.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	98		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	87		30-150	A

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530885**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530885-07
Client ID: IRM-BR-COMPOSITE-02
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/28/15 11:35
Analyst: KE
Percent Solids: 96%

Date Collected: 11/23/15 16:05
Date Received: 11/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/26/15 04:28
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.326	1	A
Lindane	ND		ug/kg	0.694	0.310	1	A
Alpha-BHC	ND		ug/kg	0.694	0.197	1	A
Beta-BHC	ND		ug/kg	1.67	0.632	1	A
Heptachlor	ND		ug/kg	0.833	0.374	1	A
Aldrin	ND		ug/kg	1.67	0.587	1	A
Heptachlor epoxide	ND		ug/kg	3.12	0.938	1	A
Endrin	ND		ug/kg	0.694	0.285	1	A
Endrin aldehyde	ND		ug/kg	2.08	0.729	1	A
Endrin ketone	ND		ug/kg	1.67	0.429	1	A
Dieldrin	ND		ug/kg	1.04	0.521	1	A
4,4'-DDE	ND		ug/kg	1.67	0.385	1	A
4,4'-DDD	ND		ug/kg	1.67	0.594	1	A
4,4'-DDT	ND		ug/kg	3.12	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.394	1	A
Endosulfan II	ND		ug/kg	1.67	0.557	1	A
Endosulfan sulfate	ND		ug/kg	0.694	0.331	1	A
Methoxychlor	ND		ug/kg	3.12	0.972	1	A
Toxaphene	ND		ug/kg	31.2	8.75	1	A
cis-Chlordane	ND		ug/kg	2.08	0.581	1	A
trans-Chlordane	ND		ug/kg	2.08	0.550	1	A
Chlordane	ND		ug/kg	13.5	5.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 11/28/15 09:50
 Analyst: KE

Extraction Method: EPA 3546
 Extraction Date: 11/26/15 04:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06-07 Batch: WG844591-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.633	0.283	A
Alpha-BHC	ND		ug/kg	0.633	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.759	0.340	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.854	A
Endrin	ND		ug/kg	0.633	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.949	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.633	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.886	A
Toxaphene	ND		ug/kg	28.5	7.97	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.3	5.03	A

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 11/28/15 09:50
 Analyst: KE

Extraction Method: EPA 3546
 Extraction Date: 11/26/15 04:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06-07 Batch: WG844591-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	100		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06-07 Batch: WG844591-2 WG844591-3									
Delta-BHC	88		104		30-150	17		30	A
Lindane	85		98		30-150	14		30	A
Alpha-BHC	89		102		30-150	14		30	A
Beta-BHC	111		122		30-150	9		30	A
Heptachlor	95		115		30-150	19		30	A
Aldrin	87		104		30-150	18		30	A
Heptachlor epoxide	94		114		30-150	19		30	A
Endrin	90		107		30-150	17		30	A
Endrin aldehyde	72		92		30-150	24		30	A
Endrin ketone	84		99		30-150	16		30	A
Dieldrin	89		104		30-150	16		30	A
4,4'-DDE	90		109		30-150	19		30	A
4,4'-DDD	90		109		30-150	19		30	A
4,4'-DDT	103		120		30-150	15		30	A
Endosulfan I	90		105		30-150	15		30	A
Endosulfan II	101		121		30-150	18		30	A
Endosulfan sulfate	83		94		30-150	12		30	A
Methoxychlor	99		111		30-150	11		30	A
cis-Chlordane	92		111		30-150	19		30	A
trans-Chlordane	95		106		30-150	11		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06-07 Batch: WG844591-2 WG844591-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		88		30-150	B
Decachlorobiphenyl	94		103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		102		30-150	A
Decachlorobiphenyl	95		108		30-150	A

METALS

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-06

Date Collected: 11/23/15 16:00

Client ID: IRM-BR-COMPOSITE-01

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	5.6		mg/kg	0.42	0.08	1	11/24/15 04:38	11/24/15 13:43	EPA 3050B	1,6010C	JH
Barium, Total	28		mg/kg	0.42	0.12	1	11/24/15 04:38	11/24/15 13:43	EPA 3050B	1,6010C	JH
Beryllium, Total	0.20	J	mg/kg	0.21	0.04	1	11/24/15 04:38	11/24/15 13:43	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.42	0.03	1	11/24/15 04:38	11/24/15 13:43	EPA 3050B	1,6010C	JH
Chromium, Total	6.8		mg/kg	0.42	0.08	1	11/24/15 04:38	11/24/15 13:43	EPA 3050B	1,6010C	JH
Copper, Total	21		mg/kg	0.42	0.08	1	11/24/15 04:38	11/24/15 13:43	EPA 3050B	1,6010C	JH
Lead, Total	2.4		mg/kg	2.1	0.08	1	11/24/15 04:38	11/24/15 13:43	EPA 3050B	1,6010C	JH
Manganese, Total	310		mg/kg	0.42	0.08	1	11/24/15 04:38	11/24/15 13:43	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.07	0.01	1	11/24/15 11:10	11/25/15 16:08	EPA 7471B	1,7471B	DB
Nickel, Total	11		mg/kg	1.0	0.17	1	11/24/15 04:38	11/24/15 13:43	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	0.83	0.12	1	11/24/15 04:38	11/24/15 13:43	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.42	0.08	1	11/24/15 04:38	11/24/15 13:43	EPA 3050B	1,6010C	JH
Zinc, Total	54		mg/kg	2.1	0.29	1	11/24/15 04:38	11/24/15 13:43	EPA 3050B	1,6010C	JH

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-07

Date Collected: 11/23/15 16:05

Client ID: IRM-BR-COMPOSITE-02

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	5.3		mg/kg	0.42	0.08	1	11/24/15 04:38	11/24/15 13:47	EPA 3050B	1,6010C	JH
Barium, Total	23		mg/kg	0.42	0.12	1	11/24/15 04:38	11/24/15 13:47	EPA 3050B	1,6010C	JH
Beryllium, Total	0.18	J	mg/kg	0.21	0.04	1	11/24/15 04:38	11/24/15 13:47	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.42	0.03	1	11/24/15 04:38	11/24/15 13:47	EPA 3050B	1,6010C	JH
Chromium, Total	6.2		mg/kg	0.42	0.08	1	11/24/15 04:38	11/24/15 13:47	EPA 3050B	1,6010C	JH
Copper, Total	18		mg/kg	0.42	0.08	1	11/24/15 04:38	11/24/15 13:47	EPA 3050B	1,6010C	JH
Lead, Total	2.2		mg/kg	2.1	0.08	1	11/24/15 04:38	11/24/15 13:47	EPA 3050B	1,6010C	JH
Manganese, Total	300		mg/kg	0.42	0.08	1	11/24/15 04:38	11/24/15 13:47	EPA 3050B	1,6010C	JH
Mercury, Total	0.02	J	mg/kg	0.07	0.01	1	11/24/15 11:10	11/25/15 16:15	EPA 7471B	1,7471B	DB
Nickel, Total	11		mg/kg	1.0	0.17	1	11/24/15 04:38	11/24/15 13:47	EPA 3050B	1,6010C	JH
Selenium, Total	0.14	J	mg/kg	0.83	0.12	1	11/24/15 04:38	11/24/15 13:47	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.42	0.08	1	11/24/15 04:38	11/24/15 13:47	EPA 3050B	1,6010C	JH
Zinc, Total	49		mg/kg	2.1	0.29	1	11/24/15 04:38	11/24/15 13:47	EPA 3050B	1,6010C	JH



Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 06-07 Batch: WG843739-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	11/24/15 11:10	11/25/15 15:04	1,7471B	DB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 06-07 Batch: WG843751-1										
Arsenic, Total	0.12	J	mg/kg	0.40	0.08	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 06-07 Batch: WG843739-2 SRM Lot Number: D088-540								
Mercury, Total	101		-		72-128	-		
Total Metals - Westborough Lab Associated sample(s): 06-07 Batch: WG843751-2 SRM Lot Number: D088-540								
Arsenic, Total	105		-		79-121	-		
Barium, Total	99		-		83-117	-		
Beryllium, Total	97		-		83-117	-		
Cadmium, Total	92		-		83-117	-		
Chromium, Total	90		-		80-120	-		
Copper, Total	90		-		81-118	-		
Lead, Total	88		-		81-117	-		
Manganese, Total	93		-		81-118	-		
Nickel, Total	93		-		83-117	-		
Selenium, Total	91		-		78-122	-		
Silver, Total	98		-		75-124	-		
Zinc, Total	97		-		82-118	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Total Metals - Westborough Lab Associated sample(s): 06-07 QC Batch ID: WG843739-4 QC Sample: L1530885-06 Client ID: IRM-BR-COMPOSITE-01

Mercury, Total	ND	0.134	0.16	119		-	-		80-120	-		20
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Total Metals - Westborough Lab Associated sample(s): 06-07 QC Batch ID: WG843751-4 QC Sample: L1530824-01 Client ID: MS Sample

Arsenic, Total	16.	12.9	32	124		-	-		75-125	-		20
Barium, Total	52.	216	270	101		-	-		75-125	-		20
Beryllium, Total	0.45J	5.39	5.6	104		-	-		75-125	-		20
Cadmium, Total	0.09J	5.5	5.6	102		-	-		75-125	-		20
Chromium, Total	29.	21.6	67	176	Q	-	-		75-125	-		20
Copper, Total	66.	26.9	100	126	Q	-	-		75-125	-		20
Lead, Total	170	55	130	0	Q	-	-		75-125	-		20
Manganese, Total	680	53.9	660	0	Q	-	-		75-125	-		20
Nickel, Total	15.	53.9	65	93		-	-		75-125	-		20
Selenium, Total	ND	12.9	12	93		-	-		75-125	-		20
Silver, Total	ND	32.3	30	93		-	-		75-125	-		20
Zinc, Total	470	53.9	500	56	Q	-	-		75-125	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 06-07 QC Batch ID: WG843739-3 QC Sample: L1530885-06 Client ID: IRM-BR-COMPOSITE-01						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Westborough Lab Associated sample(s): 06-07 QC Batch ID: WG843751-3 QC Sample: L1530824-01 Client ID: DUP Sample						
Lead, Total	170	110	mg/kg	43	Q	20

INORGANICS & MISCELLANEOUS

Project Name: PHILIPS BATH IRMS**Project Number:** 34201-313**Lab Number:** L1530885**Report Date:** 11/30/15**SAMPLE RESULTS****Lab ID:** L1530885-01**Client ID:** IRM-BR-DISCRETE-01**Sample Location:** BATH, NY**Matrix:** Soil**Date Collected:** 11/23/15 16:07**Date Received:** 11/23/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.6		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT



Project Name: PHILIPS BATH IRMS**Project Number:** 34201-313**Lab Number:** L1530885**Report Date:** 11/30/15**SAMPLE RESULTS****Lab ID:** L1530885-02**Client ID:** IRM-BR-DISCRETE-02**Sample Location:** BATH, NY**Matrix:** Soil**Date Collected:** 11/23/15 16:10**Date Received:** 11/23/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.1		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT



Project Name: PHILIPS BATH IRMS**Project Number:** 34201-313**Lab Number:** L1530885**Report Date:** 11/30/15**SAMPLE RESULTS****Lab ID:** L1530885-03**Client ID:** IRM-BR-DISCRETE-03**Sample Location:** BATH, NY**Matrix:** Soil**Date Collected:** 11/23/15 16:12**Date Received:** 11/23/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT



Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530885
Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-04
Client ID: IRM-BR-DISCRETE-04
Sample Location: BATH, NY
Matrix: Soil

Date Collected: 11/23/15 16:16
Date Received: 11/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.0		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT



Project Name: PHILIPS BATH IRMS**Project Number:** 34201-313**Lab Number:** L1530885**Report Date:** 11/30/15**SAMPLE RESULTS****Lab ID:** L1530885-05**Client ID:** IRM-BR-DISCRETE-05**Sample Location:** BATH, NY**Matrix:** Soil**Date Collected:** 11/23/15 16:20**Date Received:** 11/23/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.5		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT



Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530885
Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-06
Client ID: IRM-BR-COMPOSITE-01
Sample Location: BATH, NY
Matrix: Soil

Date Collected: 11/23/15 16:00
Date Received: 11/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	6.8		mg/kg	0.84	0.84	1	-	11/28/15 14:55	107,-	
Solids, Total	95.4		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.0	0.24	1	11/24/15 09:30	11/25/15 09:25	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	0.84	0.17	1	11/25/15 06:55	11/28/15 14:55	1,7196A	JT



Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530885-07
 Client ID: IRM-BR-COMPOSITE-02
 Sample Location: BATH, NY
 Matrix: Soil

Date Collected: 11/23/15 16:05
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	6.2		mg/kg	0.84	0.84	1	-	11/28/15 14:56	107,-	
Solids, Total	95.6		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT
Cyanide, Total	ND		mg/kg	0.99	0.23	1	11/24/15 09:30	11/25/15 09:26	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	0.84	0.17	1	11/25/15 06:55	11/28/15 14:56	1,7196A	JT



Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06-07 Batch: WG843798-1										
Cyanide, Total	ND		mg/kg	0.97	0.23	1	11/24/15 09:30	11/25/15 09:16	1,9010C/9012B	ML
General Chemistry - Westborough Lab for sample(s): 06-07 Batch: WG844205-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	11/25/15 06:55	11/28/15 14:53	1,7196A	JT

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-07 Batch: WG843798-2 WG843798-3								
Cyanide, Total	106		103		80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 06-07 Batch: WG844205-2								
Chromium, Hexavalent	88		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: PHILIPS BATH IRMS

Lab Number: L1530885

Project Number: 34201-313

Report Date: 11/30/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
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General Chemistry - Westborough Lab Associated sample(s): 06-07 QC Batch ID: WG843798-4 WG843798-5 QC Sample: L1530884-02 Client ID: MS Sample

Cyanide, Total	ND	11	10	90		10	90		65-135	0		35
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General Chemistry - Westborough Lab Associated sample(s): 06-07 QC Batch ID: WG844205-4 QC Sample: L1530884-02 Client ID: MS Sample

Chromium, Hexavalent	ND	1350	1300	96		-	-		75-125	-		20
----------------------	----	------	------	----	--	---	---	--	--------	---	--	----

Lab Duplicate Analysis Batch Quality Control

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530885
Report Date: 11/30/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG843762-1 QC Sample: L1530617-01 Client ID: DUP Sample						
Solids, Total	89.1	89.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 06-07 QC Batch ID: WG844205-6 QC Sample: L1530884-02 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530885

Report Date: 11/30/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 11/24/2015 02:59

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1530885-01A	Vial MeOH preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-01B	Vial water preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-01C	Vial water preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-01D	Plastic 2oz unpreserved for TS	A	N/A	5.0	Y	Absent	TS(7)
L1530885-02A	Vial MeOH preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-02B	Vial water preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-02C	Vial water preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-02D	Plastic 2oz unpreserved for TS	A	N/A	5.0	Y	Absent	TS(7)
L1530885-03A	Vial MeOH preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-03B	Vial water preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-03C	Vial water preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-03D	Plastic 2oz unpreserved for TS	A	N/A	5.0	Y	Absent	TS(7)
L1530885-04A	Vial MeOH preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-04B	Vial water preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-04C	Vial water preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-04D	Plastic 2oz unpreserved for TS	A	N/A	5.0	Y	Absent	TS(7)
L1530885-05A	Vial MeOH preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-05B	Vial water preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-05C	Vial water preserved	A	N/A	5.0	Y	Absent	NYTCL-8260HLW(14)
L1530885-05D	Plastic 2oz unpreserved for TS	A	N/A	5.0	Y	Absent	TS(7)
L1530885-06A	Glass 250ml/8oz unpreserved	A	N/A	5.0	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),NYTCL-8082(14),CD-TI(180),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: PHILIPS BATH IRMS**Project Number:** 34201-313**Lab Number:** L1530885**Report Date:** 11/30/15**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1530885-07A	Glass 250ml/8oz unpreserved	A	N/A	5.0	Y	Absent	BE-Ti(180),NYTCL-8270(14),TCN-9010(14),AS-Ti(180),BA-Ti(180),AG-Ti(180),CR-Ti(180),NI-Ti(180),TRICR-CALC(30),TS(7),CU-Ti(180),PB-Ti(180),SE-Ti(180),ZN-Ti(180),NYTCL-8081(14),HG-T(28),MN-Ti(180),NYTCL-8082(14),CD-Ti(180),HEXCR-7196(30)

Container Comments

L1530885-06A

L1530885-07A

*Values in parentheses indicate holding time in days

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530885
Report Date: 11/30/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers



Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530885
Report Date: 11/30/15

Data Qualifiers

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530885
Report Date: 11/30/15

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 107 Alpha Analytical - In-house calculation method.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 8260C: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; Iodomethane (methyl iodide) (soil); Methyl methacrylate (soil); Azobenzene.

EPA 8270D: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

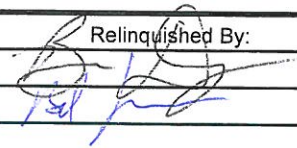
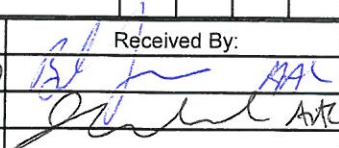
EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 11/24/15		ALPHA Job # L1530085																																																																																																																							
		Project Information Project Name: Philips Bath IRMs Project Location: Bath, NY Project #: 34201-313 (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQULS (1 File) ☐ EQULS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO # 14157																																																																																																																									
Client Information Client: Haley & Aldrich, Inc. Address: 200 Town Centre Drive, Suite 2 Rochester, NY Phone: 585-321-4235 Fax: Email: bdrayn@haleyaldrich.com		Project Manager: Jeremy DeGrande (jdegrande@haleyaldrich.com) ALPHAQuote #: 2014230R1 Turn-Around Time Standard ☐ Due Date: 11/30/15 Rush (only if pre approved) ☒ 3-Day # of Days:		Regulatory Requirement ☐ NY TOGS ☒ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																																																																																																																									
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:		ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below) Sample Specific Comments		Total Bottles																																																																																																																									
Please specify Metals or TAL.		TLC VOL 8260-5085 TLC SVOL TLC Pest PCBs 8082																																																																																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">TLC VOL 8260-5085</th> <th rowspan="2">TLC SVOL</th> <th rowspan="2">TLC Pest</th> <th rowspan="2">PCBs</th> <th rowspan="2">PCBs 8082</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>50885-01</td> <td>IRM - BR - DISCRETE - 01</td> <td>11/23/15</td> <td>1607</td> <td>SO</td> <td>BD</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>02</td> <td>IRM - BR - DISCRETE - 02</td> <td>11/23/15</td> <td>1610</td> <td>SO</td> <td>BD</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>03</td> <td>IRM - BR - DISCRETE - 03</td> <td>11/23/15</td> <td>1612</td> <td>SO</td> <td>BD</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>04</td> <td>IRM - BR - DISCRETE - 04</td> <td>11/23/15</td> <td>1616</td> <td>SO</td> <td>BD</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>05</td> <td>IRM - BR - DISCRETE - 05</td> <td>11/23/15</td> <td>1620</td> <td>SO</td> <td>BD</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>06</td> <td>IRM - BR - COMPOSITE - 01</td> <td>11/23/15</td> <td>1600</td> <td>SO</td> <td>BD</td> <td></td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>07</td> <td>IRM - BR - COMPOSITE - 02</td> <td>11/23/15</td> <td>1605</td> <td>SO</td> <td>BD</td> <td></td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td colspan="2"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection				Sample Matrix	Sampler's Initials	TLC VOL 8260-5085	TLC SVOL	TLC Pest	PCBs	PCBs 8082	Sample Specific Comments	Date	Time	50885-01	IRM - BR - DISCRETE - 01	11/23/15	1607	SO	BD	X						02	IRM - BR - DISCRETE - 02	11/23/15	1610	SO	BD	X						03	IRM - BR - DISCRETE - 03	11/23/15	1612	SO	BD	X						04	IRM - BR - DISCRETE - 04	11/23/15	1616	SO	BD	X						05	IRM - BR - DISCRETE - 05	11/23/15	1620	SO	BD	X						06	IRM - BR - COMPOSITE - 01	11/23/15	1600	SO	BD		X	X		X		07	IRM - BR - COMPOSITE - 02	11/23/15	1605	SO	BD		X	X		X																											
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07	IRM - BR - COMPOSITE - 02	11/23/15	1605	SO	BD		X	X		X																																																																																																																					
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type 5035 Kit Preservative -		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <u>TERMS & CONDITIONS</u> .																																																																																																																							
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ANALYTICAL REPORT

Lab Number:	L1530886
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623-4264
ATTN:	Benjamin Drayn
Phone:	(585) 321-4245
Project Name:	PHILIPS BATH IRMS
Project Number:	34201-313
Report Date:	11/30/15

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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



Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530886
Report Date: 11/30/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1530886-01	IRM-TS-DISCRETE-01	SOIL	BATH, NY	11/23/15 15:25	11/23/15
L1530886-02	IRM-TS-DISCRETE-02	SOIL	BATH, NY	11/23/15 15:30	11/23/15
L1530886-03	IRM-TS-DISCRETE-03	SOIL	BATH, NY	11/23/15 15:35	11/23/15
L1530886-04	IRM-TS-DISCRETE-04	SOIL	BATH, NY	11/23/15 15:40	11/23/15
L1530886-05	IRM-TS-DISCRETE-05	SOIL	BATH, NY	11/23/15 15:45	11/23/15
L1530886-06	IRM-TS-DISCRETE-06	SOIL	BATH, NY	11/23/15 15:50	11/23/15
L1530886-07	IRM-TS-COMPOSITE-01	SOIL	BATH, NY	11/23/15 15:15	11/23/15
L1530886-08	IRM-TS-COMPOSITE-02	SOIL	BATH, NY	11/23/15 15:20	11/23/15

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530886
Report Date: 11/30/15

Case Narrative

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

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

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

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

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530886
Report Date: 11/30/15

Case Narrative (continued)

Report Submission

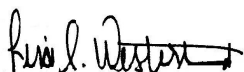
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

The WG844569-3 LCSD recoveries, associated with L1530886-07 and -08, are below the acceptance criteria for 2,4-dinitrophenol (0%) and benzoic acid (0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

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

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 11/30/15

ORGANICS

VOLATILES

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-01
 Client ID: IRM-TS-DISCRETE-01
 Sample Location: BATH, NY
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 11/28/15 14:16
 Analyst: BN
 Percent Solids: 72%

Date Collected: 11/23/15 15:25
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	17	1.9	1
1,1-Dichloroethane	ND		ug/kg	2.6	0.15	1
Chloroform	ND		ug/kg	2.6	0.64	1
Carbon tetrachloride	ND		ug/kg	1.7	0.37	1
1,2-Dichloropropane	ND		ug/kg	6.1	0.40	1
Dibromochloromethane	ND		ug/kg	1.7	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	2.6	0.53	1
Tetrachloroethene	ND		ug/kg	1.7	0.24	1
Chlorobenzene	ND		ug/kg	1.7	0.61	1
Trichlorofluoromethane	ND		ug/kg	8.7	0.68	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	0.19	1
Bromodichloromethane	ND		ug/kg	1.7	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	0.20	1
Bromoform	ND		ug/kg	7.0	0.41	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.7	0.18	1
Benzene	ND		ug/kg	1.7	0.21	1
Toluene	ND		ug/kg	2.6	0.34	1
Ethylbenzene	ND		ug/kg	1.7	0.22	1
Chloromethane	ND		ug/kg	8.7	0.51	1
Bromomethane	ND		ug/kg	3.5	0.59	1
Vinyl chloride	ND		ug/kg	3.5	0.20	1
Chloroethane	ND		ug/kg	3.5	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.7	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.37	1
Trichloroethene	ND		ug/kg	1.7	0.22	1
1,2-Dichlorobenzene	ND		ug/kg	8.7	0.27	1
1,3-Dichlorobenzene	ND		ug/kg	8.7	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	8.7	0.24	1

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-01
 Client ID: IRM-TS-DISCRETE-01
 Sample Location: BATH, NY

Date Collected: 11/23/15 15:25
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	3.5	0.15	1
p/m-Xylene	ND		ug/kg	3.5	0.34	1
o-Xylene	ND		ug/kg	3.5	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	0.25	1
Styrene	ND		ug/kg	3.5	0.70	1
Dichlorodifluoromethane	ND		ug/kg	17	0.33	1
Acetone	5.6	J	ug/kg	17	1.8	1
Carbon disulfide	ND		ug/kg	17	1.9	1
2-Butanone	ND		ug/kg	17	0.47	1
4-Methyl-2-pentanone	ND		ug/kg	17	0.42	1
2-Hexanone	ND		ug/kg	17	1.2	1
Bromochloromethane	ND		ug/kg	8.7	0.48	1
1,2-Dibromoethane	ND		ug/kg	7.0	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.7	0.69	1
Isopropylbenzene	ND		ug/kg	1.7	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.7	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.7	0.32	1
Methyl Acetate	ND		ug/kg	35	0.47	1
Cyclohexane	ND		ug/kg	35	0.25	1
1,4-Dioxane	ND		ug/kg	170	25.	1
Freon-113	ND		ug/kg	35	0.48	1
Methyl cyclohexane	ND		ug/kg	7.0	0.27	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	116		70-130

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530886**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530886-02
Client ID: IRM-TS-DISCRETE-02
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/28/15 14:44
Analyst: BN
Percent Solids: 76%

Date Collected: 11/23/15 15:30
Date Received: 11/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	1.5	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.12	1
Chloroform	ND		ug/kg	2.1	0.52	1
Carbon tetrachloride	ND		ug/kg	1.4	0.29	1
1,2-Dichloropropane	ND		ug/kg	4.9	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.42	1
Tetrachloroethene	ND		ug/kg	1.4	0.20	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	7.0	0.54	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.15	1
Bromodichloromethane	ND		ug/kg	1.4	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.16	1
Bromoform	ND		ug/kg	5.6	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.14	1
Benzene	ND		ug/kg	1.4	0.16	1
Toluene	ND		ug/kg	2.1	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.18	1
Chloromethane	ND		ug/kg	7.0	0.41	1
Bromomethane	ND		ug/kg	2.8	0.47	1
Vinyl chloride	ND		ug/kg	2.8	0.16	1
Chloroethane	ND		ug/kg	2.8	0.44	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.30	1
Trichloroethene	ND		ug/kg	1.4	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	7.0	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	7.0	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	7.0	0.19	1

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530886**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530886-02
 Client ID: IRM-TS-DISCRETE-02
 Sample Location: BATH, NY

Date Collected: 11/23/15 15:30
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.8	0.12	1
p/m-Xylene	ND		ug/kg	2.8	0.28	1
o-Xylene	ND		ug/kg	2.8	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.20	1
Styrene	ND		ug/kg	2.8	0.56	1
Dichlorodifluoromethane	ND		ug/kg	14	0.26	1
Acetone	15		ug/kg	14	1.4	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.38	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.34	1
2-Hexanone	ND		ug/kg	14	0.93	1
Bromochloromethane	ND		ug/kg	7.0	0.38	1
1,2-Dibromoethane	ND		ug/kg	5.6	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.0	0.55	1
Isopropylbenzene	ND		ug/kg	1.4	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.0	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.0	0.25	1
Methyl Acetate	ND		ug/kg	28	0.38	1
Cyclohexane	ND		ug/kg	28	0.20	1
1,4-Dioxane	ND		ug/kg	140	20.	1
Freon-113	ND		ug/kg	28	0.38	1
Methyl cyclohexane	ND		ug/kg	5.6	0.22	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	110		70-130

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-03
 Client ID: IRM-TS-DISCRETE-03
 Sample Location: BATH, NY
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 11/28/15 15:10
 Analyst: BN
 Percent Solids: 74%

Date Collected: 11/23/15 15:35
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.1	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	1.0	0.21	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.23	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30	1
Tetrachloroethene	ND		ug/kg	1.0	0.14	1
Chlorobenzene	ND		ug/kg	1.0	0.35	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.39	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11	1
Bromodichloromethane	ND		ug/kg	1.0	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10	1
Benzene	ND		ug/kg	1.0	0.12	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	1.0	0.13	1
Chloromethane	ND		ug/kg	5.0	0.29	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.12	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21	1
Trichloroethene	ND		ug/kg	1.0	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14	1

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-03
 Client ID: IRM-TS-DISCRETE-03
 Sample Location: BATH, NY

Date Collected: 11/23/15 15:35
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.0	0.08	1
p/m-Xylene	ND		ug/kg	2.0	0.20	1
o-Xylene	ND		ug/kg	2.0	0.17	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	10	0.19	1
Acetone	6.0	J	ug/kg	10	1.0	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.27	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.24	1
2-Hexanone	ND		ug/kg	10	0.66	1
Bromochloromethane	ND		ug/kg	5.0	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.39	1
Isopropylbenzene	ND		ug/kg	1.0	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18	1
Methyl Acetate	ND		ug/kg	20	0.27	1
Cyclohexane	ND		ug/kg	20	0.14	1
1,4-Dioxane	ND		ug/kg	100	14.	1
Freon-113	ND		ug/kg	20	0.27	1
Methyl cyclohexane	ND		ug/kg	4.0	0.15	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	111		70-130

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-04
 Client ID: IRM-TS-DISCRETE-04
 Sample Location: BATH, NY
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 11/28/15 15:37
 Analyst: BN
 Percent Solids: 74%

Date Collected: 11/23/15 15:40
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
Bromoform	ND		ug/kg	4.5	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.6	0.33	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.16	1

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-04
 Client ID: IRM-TS-DISCRETE-04
 Sample Location: BATH, NY

Date Collected: 11/23/15 15:40
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.10	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Styrene	ND		ug/kg	2.2	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	20		ug/kg	11	1.2	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
2-Hexanone	ND		ug/kg	11	0.75	1
Bromochloromethane	ND		ug/kg	5.6	0.31	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.44	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.20	1
Methyl Acetate	ND		ug/kg	22	0.30	1
Cyclohexane	ND		ug/kg	22	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
Freon-113	ND		ug/kg	22	0.31	1
Methyl cyclohexane	ND		ug/kg	4.5	0.17	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	114		70-130

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530886**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530886-05
Client ID: IRM-TS-DISCRETE-05
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/28/15 16:04
Analyst: BN
Percent Solids: 75%

Date Collected: 11/23/15 15:45
Date Received: 11/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
Bromoform	ND		ug/kg	4.5	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.6	0.33	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.16	1

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-05
 Client ID: IRM-TS-DISCRETE-05
 Sample Location: BATH, NY

Date Collected: 11/23/15 15:45
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.10	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
Styrene	ND		ug/kg	2.2	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	6.4	J	ug/kg	11	1.2	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.31	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
2-Hexanone	ND		ug/kg	11	0.75	1
Bromochloromethane	ND		ug/kg	5.6	0.31	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.44	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.20	1
Methyl Acetate	ND		ug/kg	22	0.30	1
Cyclohexane	ND		ug/kg	22	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
Freon-113	ND		ug/kg	22	0.31	1
Methyl cyclohexane	ND		ug/kg	4.5	0.17	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	112		70-130

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530886**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530886-06
Client ID: IRM-TS-DISCRETE-06
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 11/28/15 16:31
Analyst: BN
Percent Solids: 72%

Date Collected: 11/23/15 15:50
Date Received: 11/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.9	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.7	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	5.9	0.35	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.25	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.9	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	5.9	0.16	1

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-06
 Client ID: IRM-TS-DISCRETE-06
 Sample Location: BATH, NY

Date Collected: 11/23/15 15:50
 Date Received: 11/23/15
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.23	1
o-Xylene	ND		ug/kg	2.4	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
Styrene	ND		ug/kg	2.4	0.47	1
Dichlorodifluoromethane	ND		ug/kg	12	0.22	1
Acetone	4.8	J	ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.32	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
2-Hexanone	ND		ug/kg	12	0.78	1
Bromochloromethane	ND		ug/kg	5.9	0.32	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	0.47	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	0.21	1
Methyl Acetate	ND		ug/kg	24	0.32	1
Cyclohexane	ND		ug/kg	24	0.17	1
1,4-Dioxane	ND		ug/kg	120	17.	1
Freon-113	ND		ug/kg	24	0.32	1
Methyl cyclohexane	ND		ug/kg	4.7	0.18	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	115		70-130

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/28/15 11:06
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG844976-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/28/15 11:06
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG844976-3					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 11/28/15 11:06

Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-06 Batch: WG844976-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG844976-1 WG844976-2								
Methylene chloride	100		102		70-130	2		30
1,1-Dichloroethane	100		101		70-130	1		30
Chloroform	101		99		70-130	2		30
Carbon tetrachloride	99		98		70-130	1		30
1,2-Dichloropropane	102		104		70-130	2		30
Dibromochloromethane	96		98		70-130	2		30
2-Chloroethylvinyl ether	87		107		70-130	21		30
1,1,2-Trichloroethane	96		95		70-130	1		30
Tetrachloroethene	103		96		70-130	7		30
Chlorobenzene	95		96		70-130	1		30
Trichlorofluoromethane	90		88		70-139	2		30
1,2-Dichloroethane	101		105		70-130	4		30
1,1,1-Trichloroethane	100		99		70-130	1		30
Bromodichloromethane	101		101		70-130	0		30
trans-1,3-Dichloropropene	99		98		70-130	1		30
cis-1,3-Dichloropropene	93		106		70-130	13		30
1,1-Dichloropropene	100		98		70-130	2		30
Bromoform	96		100		70-130	4		30
1,1,2,2-Tetrachloroethane	96		95		70-130	1		30
Benzene	101		102		70-130	1		30
Toluene	93		99		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG844976-1 WG844976-2								
Ethylbenzene	95		94		70-130	1		30
Chloromethane	101		100		52-130	1		30
Bromomethane	103		105		57-147	2		30
Vinyl chloride	110		108		67-130	2		30
Chloroethane	99		99		50-151	0		30
1,1-Dichloroethene	100		99		65-135	1		30
trans-1,2-Dichloroethene	100		100		70-130	0		30
Trichloroethene	101		101		70-130	0		30
1,2-Dichlorobenzene	102		94		70-130	8		30
1,3-Dichlorobenzene	95		94		70-130	1		30
1,4-Dichlorobenzene	94		93		70-130	1		30
Methyl tert butyl ether	99		104		66-130	5		30
p/m-Xylene	99		93		70-130	6		30
o-Xylene	99		100		70-130	1		30
cis-1,2-Dichloroethene	100		101		70-130	1		30
Dibromomethane	105		108		70-130	3		30
Styrene	99		102		70-130	3		30
Dichlorodifluoromethane	104		99		30-146	5		30
Acetone	103		110		54-140	7		30
Carbon disulfide	96		93		59-130	3		30
2-Butanone	109		114		70-130	4		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG844976-1 WG844976-2								
Vinyl acetate	107		112		70-130	5		30
4-Methyl-2-pentanone	83		90		70-130	8		30
1,2,3-Trichloropropane	94		99		68-130	5		30
2-Hexanone	90		93		70-130	3		30
Bromochloromethane	108		111		70-130	3		30
2,2-Dichloropropane	105		102		70-130	3		30
1,2-Dibromoethane	98		100		70-130	2		30
1,3-Dichloropropane	95		96		69-130	1		30
1,1,1,2-Tetrachloroethane	100		98		70-130	2		30
Bromobenzene	95		92		70-130	3		30
n-Butylbenzene	97		89		70-130	9		30
sec-Butylbenzene	95		90		70-130	5		30
tert-Butylbenzene	95		91		70-130	4		30
o-Chlorotoluene	96		91		70-130	5		30
p-Chlorotoluene	93		90		70-130	3		30
1,2-Dibromo-3-chloropropane	99		105		68-130	6		30
Hexachlorobutadiene	103		99		67-130	4		30
Isopropylbenzene	97		94		70-130	3		30
p-Isopropyltoluene	100		94		70-130	6		30
Naphthalene	104		108		70-130	4		30
Acrylonitrile	105		113		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG844976-1 WG844976-2								
Isopropyl Ether	99		102		66-130	3		30
tert-Butyl Alcohol	104		115		70-130	10		30
n-Propylbenzene	92		86		70-130	7		30
1,2,3-Trichlorobenzene	105		105		70-130	0		30
1,2,4-Trichlorobenzene	104		102		70-130	2		30
1,3,5-Trimethylbenzene	97		94		70-130	3		30
1,2,4-Trimethylbenzene	97		93		70-130	4		30
Methyl Acetate	101		112		51-146	10		30
Ethyl Acetate	105		115		70-130	9		30
Acrolein	97		108		70-130	11		30
Cyclohexane	101		98		59-142	3		30
1,4-Dioxane	91		110		65-136	19		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	103		98		50-139	5		30
p-Diethylbenzene	94		90		70-130	4		30
p-Ethyltoluene	96		92		70-130	4		30
1,2,4,5-Tetramethylbenzene	105		103		70-130	2		30
Tetrahydrofuran	108		120		66-130	11		30
Ethyl ether	92		104		67-130	12		30
trans-1,4-Dichloro-2-butene	94		96		70-130	2		30
Methyl cyclohexane	105		100		70-130	5		30
Ethyl-Tert-Butyl-Ether	100		103		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-06 Batch: WG844976-1 WG844976-2								
Tertiary-Amyl Methyl Ether	100		105		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		102		70-130
Toluene-d8	97		104		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	102		102		70-130

SEMIVOLATILES

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530886**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530886-07
Client ID: IRM-TS-COMPOSITE-01
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/28/15 22:25
Analyst: KR
Percent Solids: 75%

Date Collected: 11/23/15 15:15
Date Received: 11/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/26/15 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	45.	1
Hexachlorobenzene	ND		ug/kg	130	41.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	62.	1
2-Chloronaphthalene	ND		ug/kg	220	72.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	59.	1
2,4-Dinitrotoluene	ND		ug/kg	220	48.	1
2,6-Dinitrotoluene	ND		ug/kg	220	56.	1
Fluoranthene	ND		ug/kg	130	40.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	67.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	51.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	78.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	67.	1
Hexachlorobutadiene	ND		ug/kg	220	62.	1
Hexachlorocyclopentadiene	ND		ug/kg	630	140	1
Hexachloroethane	ND		ug/kg	180	40.	1
Isophorone	ND		ug/kg	200	59.	1
Naphthalene	ND		ug/kg	220	73.	1
Nitrobenzene	ND		ug/kg	200	52.	1
NDPA/DPA	ND		ug/kg	180	46.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	66.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	58.	1
Butyl benzyl phthalate	ND		ug/kg	220	43.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	54.	1
Diethyl phthalate	ND		ug/kg	220	46.	1
Dimethyl phthalate	ND		ug/kg	220	56.	1
Benzo(a)anthracene	ND		ug/kg	130	43.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	44.	1
Benzo(k)fluoranthene	ND		ug/kg	130	42.	1

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-07

Date Collected: 11/23/15 15:15

Client ID: IRM-TS-COMPOSITE-01

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	130	43.	1
Acenaphthylene	ND		ug/kg	180	41.	1
Anthracene	ND		ug/kg	130	37.	1
Benzo(ghi)perylene	ND		ug/kg	180	46.	1
Fluorene	ND		ug/kg	220	63.	1
Phenanthrene	ND		ug/kg	130	43.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	43.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	49.	1
Pyrene	ND		ug/kg	130	43.	1
Biphenyl	ND		ug/kg	500	73.	1
4-Chloroaniline	ND		ug/kg	220	58.	1
2-Nitroaniline	ND		ug/kg	220	62.	1
3-Nitroaniline	ND		ug/kg	220	61.	1
4-Nitroaniline	ND		ug/kg	220	60.	1
Dibenzofuran	ND		ug/kg	220	74.	1
2-Methylnaphthalene	ND		ug/kg	260	70.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	68.	1
Acetophenone	ND		ug/kg	220	68.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	42.	1
p-Chloro-m-cresol	ND		ug/kg	220	64.	1
2-Chlorophenol	ND		ug/kg	220	66.	1
2,4-Dichlorophenol	ND		ug/kg	200	71.	1
2,4-Dimethylphenol	ND		ug/kg	220	66.	1
2-Nitrophenol	ND		ug/kg	480	69.	1
4-Nitrophenol	ND		ug/kg	310	71.	1
2,4-Dinitrophenol	ND		ug/kg	1000	300	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	81.	1
Pentachlorophenol	ND		ug/kg	180	47.	1
Phenol	ND		ug/kg	220	65.	1
2-Methylphenol	ND		ug/kg	220	71.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	72.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	71.	1
Carbazole	ND		ug/kg	220	47.	1
Benzaldehyde	ND		ug/kg	290	89.	1
Caprolactam	ND		ug/kg	220	61.	1
Atrazine	ND		ug/kg	180	50.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	220	37.	1

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530886**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530886-07

Date Collected: 11/23/15 15:15

Client ID: IRM-TS-COMPOSITE-01

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	92		18-120

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530886**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530886-08
Client ID: IRM-TS-COMPOSITE-02
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 11/28/15 22:54
Analyst: KR
Percent Solids: 77%

Date Collected: 11/23/15 15:20
Date Received: 11/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/26/15 02:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	44.	1
Hexachlorobenzene	ND		ug/kg	130	40.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	60.	1
2-Chloronaphthalene	ND		ug/kg	220	70.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	46.	1
2,6-Dinitrotoluene	ND		ug/kg	220	55.	1
Fluoranthene	ND		ug/kg	130	40.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	66.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	50.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	76.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	65.	1
Hexachlorobutadiene	ND		ug/kg	220	61.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	140	1
Hexachloroethane	ND		ug/kg	170	39.	1
Isophorone	ND		ug/kg	190	57.	1
Naphthalene	ND		ug/kg	220	72.	1
Nitrobenzene	ND		ug/kg	190	51.	1
NDPA/DPA	ND		ug/kg	170	45.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	64.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	56.	1
Butyl benzyl phthalate	ND		ug/kg	220	42.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	53.	1
Diethyl phthalate	ND		ug/kg	220	46.	1
Dimethyl phthalate	ND		ug/kg	220	55.	1
Benzo(a)anthracene	ND		ug/kg	130	42.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	44.	1
Benzo(k)fluoranthene	ND		ug/kg	130	41.	1

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-08

Date Collected: 11/23/15 15:20

Client ID: IRM-TS-COMPOSITE-02

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	130	42.	1
Acenaphthylene	ND		ug/kg	170	40.	1
Anthracene	ND		ug/kg	130	36.	1
Benzo(ghi)perylene	ND		ug/kg	170	45.	1
Fluorene	ND		ug/kg	220	62.	1
Phenanthrene	ND		ug/kg	130	42.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	42.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	48.	1
Pyrene	ND		ug/kg	130	42.	1
Biphenyl	ND		ug/kg	490	71.	1
4-Chloroaniline	ND		ug/kg	220	57.	1
2-Nitroaniline	ND		ug/kg	220	61.	1
3-Nitroaniline	ND		ug/kg	220	59.	1
4-Nitroaniline	ND		ug/kg	220	58.	1
Dibenzofuran	ND		ug/kg	220	72.	1
2-Methylnaphthalene	ND		ug/kg	260	69.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	67.	1
Acetophenone	ND		ug/kg	220	67.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	62.	1
2-Chlorophenol	ND		ug/kg	220	65.	1
2,4-Dichlorophenol	ND		ug/kg	190	70.	1
2,4-Dimethylphenol	ND		ug/kg	220	64.	1
2-Nitrophenol	ND		ug/kg	460	67.	1
4-Nitrophenol	ND		ug/kg	300	70.	1
2,4-Dinitrophenol	ND		ug/kg	1000	290	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	79.	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	220	64.	1
2-Methylphenol	ND		ug/kg	220	69.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	71.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	70.	1
Carbazole	ND		ug/kg	220	46.	1
Benzaldehyde	ND		ug/kg	280	87.	1
Caprolactam	ND		ug/kg	220	59.	1
Atrazine	ND		ug/kg	170	49.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	220	37.	1

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530886**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530886-08

Date Collected: 11/23/15 15:20

Client ID: IRM-TS-COMPOSITE-02

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	91		18-120

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 11/28/15 14:13
 Analyst: KR

Extraction Method: EPA 3546
 Extraction Date: 11/26/15 02:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG844569-1					
Acenaphthene	ND		ug/kg	130	33.
Hexachlorobenzene	ND		ug/kg	97	30.
Bis(2-chloroethyl)ether	ND		ug/kg	140	45.
2-Chloronaphthalene	ND		ug/kg	160	53.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	41.
Fluoranthene	ND		ug/kg	97	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	49.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	460	100
Hexachloroethane	ND		ug/kg	130	29.
Isophorone	ND		ug/kg	140	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	140	38.
NDPA/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	42.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	97	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	33.

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 11/28/15 14:13
 Analyst: KR

Extraction Method: EPA 3546
 Extraction Date: 11/26/15 02:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG844569-1					
Benzo(k)fluoranthene	ND		ug/kg	97	31.
Chrysene	ND		ug/kg	97	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	97	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	46.
Phenanthrene	ND		ug/kg	97	32.
Dibenzo(a,h)anthracene	ND		ug/kg	97	31.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	97	31.
Biphenyl	ND		ug/kg	370	53.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	44.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	190	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	97	30.
p-Chloro-m-cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	140	52.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	50.
4-Nitrophenol	ND		ug/kg	230	52.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	59.
Pentachlorophenol	ND		ug/kg	130	34.

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 11/28/15 14:13
 Analyst: KR

Extraction Method: EPA 3546
 Extraction Date: 11/26/15 02:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG844569-1					
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	52.
Carbazole	ND		ug/kg	160	35.
Benzaldehyde	ND		ug/kg	210	65.
Caprolactam	ND		ug/kg	160	44.
Atrazine	ND		ug/kg	130	36.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	27.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	93		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG844569-2 WG844569-3								
Acenaphthene	90		69		31-137	26		50
Benzidine	33		21		10-66	44		50
n-Nitrosodimethylamine	74		58		22-100	24		50
1,2,4-Trichlorobenzene	83		65		38-107	24		50
Hexachlorobenzene	93		72		40-140	25		50
Bis(2-chloroethyl)ether	74		58		40-140	24		50
2-Chloronaphthalene	91		70		40-140	26		50
1,2-Dichlorobenzene	79		62		40-140	24		50
1,3-Dichlorobenzene	77		62		40-140	22		50
1,4-Dichlorobenzene	78		63		28-104	21		50
3,3'-Dichlorobenzidine	79		62		40-140	24		50
2,4-Dinitrotoluene	100	Q	76		28-89	27		50
2,6-Dinitrotoluene	98		75		40-140	27		50
Fluoranthene	100		76		40-140	27		50
4-Chlorophenyl phenyl ether	90		70		40-140	25		50
4-Bromophenyl phenyl ether	92		71		40-140	26		50
Azobenzene	81		63		40-140	25		50
Bis(2-chloroisopropyl)ether	58		47		40-140	21		50
Bis(2-chloroethoxy)methane	82		64		40-117	25		50
Hexachlorobutadiene	83		66		40-140	23		50
Hexachlorocyclopentadiene	75		61		40-140	21		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG844569-2 WG844569-3								
Hexachloroethane	75		59		40-140	24		50
Isophorone	83		65		40-140	24		50
Naphthalene	85		66		40-140	25		50
Nitrobenzene	73		58		40-140	23		50
NitrosoDiPhenylAmine(NDPA)/DPA	93		71		36-157	27		50
n-Nitrosodi-n-propylamine	79		62		32-121	24		50
Bis(2-Ethylhexyl)phthalate	99		78		40-140	24		50
Butyl benzyl phthalate	107		84		40-140	24		50
Di-n-butylphthalate	101		79		40-140	24		50
Di-n-octylphthalate	102		82		40-140	22		50
Diethyl phthalate	92		71		40-140	26		50
Dimethyl phthalate	93		72		40-140	25		50
Benzo(a)anthracene	93		72		40-140	25		50
Benzo(a)pyrene	97		75		40-140	26		50
Benzo(b)fluoranthene	92		72		40-140	24		50
Benzo(k)fluoranthene	95		72		40-140	28		50
Chrysene	93		69		40-140	30		50
Acenaphthylene	96		74		40-140	26		50
Anthracene	97		75		40-140	26		50
Benzo(ghi)perylene	98		76		40-140	25		50
Fluorene	92		70		40-140	27		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG844569-2 WG844569-3								
Phenanthrene	92		71		40-140	26		50
Dibenzo(a,h)anthracene	100		76		40-140	27		50
Indeno(1,2,3-cd)Pyrene	102		79		40-140	25		50
Pyrene	99		76		35-142	26		50
Biphenyl	90		69		54-104	26		50
Aniline	55		43		40-140	24		50
4-Chloroaniline	74		60		40-140	21		50
2-Nitroaniline	100		76		47-134	27		50
3-Nitroaniline	87		65		26-129	29		50
4-Nitroaniline	98		72		41-125	31		50
Dibenzofuran	93		71		40-140	27		50
2-Methylnaphthalene	92		73		40-140	23		50
1,2,4,5-Tetrachlorobenzene	85		67		40-117	24		50
Acetophenone	91		72		14-144	23		50
2,4,6-Trichlorophenol	98		74		30-130	28		50
P-Chloro-M-Cresol	99		76		26-103	26		50
2-Chlorophenol	88		67		25-102	27		50
2,4-Dichlorophenol	93		72		30-130	25		50
2,4-Dimethylphenol	90		73		30-130	21		50
2-Nitrophenol	92		72		30-130	24		50
4-Nitrophenol	100		75		11-114	29		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG844569-2 WG844569-3								
2,4-Dinitrophenol	20		0	Q	4-130	NC		50
4,6-Dinitro-o-cresol	67		29		10-130	79	Q	50
Pentachlorophenol	84		55		17-109	42		50
Phenol	80		61		26-90	27		50
2-Methylphenol	91		71		30-130	25		50
3-Methylphenol/4-Methylphenol	94		71		30-130	28		50
2,4,5-Trichlorophenol	100		74		30-130	30		50
Benzoic Acid	10		0	Q	10-66	NC		50
Benzyl Alcohol	89		69		40-140	25		50
Carbazole	99		75		54-128	28		50
Benzaldehyde	84		68		40-140	21		50
Caprolactam	84		67		15-130	23		50
Atrazine	105		80		40-140	27		50
2,3,4,6-Tetrachlorophenol	94		70		40-140	29		50
Pyridine	48		40		10-93	18		50
Parathion, ethyl	104		81		40-140	25		50
1-Methylnaphthalene	86		68		26-130	23		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** PHILIPS BATH IRMS**Lab Number:** L1530886**Project Number:** 34201-313**Report Date:** 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG844569-2 WG844569-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		56		25-120
Phenol-d6	84		65		10-120
Nitrobenzene-d5	79		61		23-120
2-Fluorobiphenyl	91		70		30-120
2,4,6-Tribromophenol	99		77		10-136
4-Terphenyl-d14	97		76		18-120

PCBS

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530886
Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-07
Client ID: IRM-TS-COMPOSITE-01
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 01:33
Analyst: JT
Percent Solids: 75%

Date Collected: 11/23/15 15:15
Date Received: 11/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/25/15 14:20
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	44.2	3.49	1	A
Aroclor 1221	ND		ug/kg	44.2	4.07	1	A
Aroclor 1232	ND		ug/kg	44.2	5.17	1	A
Aroclor 1242	ND		ug/kg	44.2	5.40	1	A
Aroclor 1248	ND		ug/kg	44.2	3.73	1	A
Aroclor 1254	ND		ug/kg	44.2	3.63	1	A
Aroclor 1260	ND		ug/kg	44.2	3.36	1	A
Aroclor 1262	ND		ug/kg	44.2	2.19	1	A
Aroclor 1268	ND		ug/kg	44.2	6.40	1	A
PCBs, Total	ND		ug/kg	44.2	2.19	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530886**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530886-08
Client ID: IRM-TS-COMPOSITE-02
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 11/28/15 01:49
Analyst: JT
Percent Solids: 77%

Date Collected: 11/23/15 15:20
Date Received: 11/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/25/15 14:20
Cleanup Method: EPA 3665A
Cleanup Date: 11/27/15
Cleanup Method: EPA 3660B
Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.5	3.28	1	A
Aroclor 1221	ND		ug/kg	41.5	3.82	1	A
Aroclor 1232	ND		ug/kg	41.5	4.86	1	A
Aroclor 1242	ND		ug/kg	41.5	5.08	1	A
Aroclor 1248	ND		ug/kg	41.5	3.50	1	A
Aroclor 1254	ND		ug/kg	41.5	3.41	1	A
Aroclor 1260	ND		ug/kg	41.5	3.16	1	A
Aroclor 1262	ND		ug/kg	41.5	2.06	1	A
Aroclor 1268	ND		ug/kg	41.5	6.02	1	A
PCBs, Total	ND		ug/kg	41.5	2.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 11/27/15 23:55
 Analyst: JT

Extraction Method: EPA 3546
 Extraction Date: 11/25/15 14:20
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/27/15
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 07-08 Batch: WG844412-1						
Aroclor 1016	ND		ug/kg	32.7	2.59	A
Aroclor 1221	ND		ug/kg	32.7	3.02	A
Aroclor 1232	ND		ug/kg	32.7	3.84	A
Aroclor 1242	ND		ug/kg	32.7	4.01	A
Aroclor 1248	ND		ug/kg	32.7	2.76	A
Aroclor 1254	ND		ug/kg	32.7	2.69	A
Aroclor 1260	ND		ug/kg	32.7	2.50	A
Aroclor 1262	ND		ug/kg	32.7	1.62	A
Aroclor 1268	ND		ug/kg	32.7	4.75	A
PCBs, Total	ND		ug/kg	32.7	1.62	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	90		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 07-08 Batch: WG844412-2 WG844412-3									
Aroclor 1016	74		74		40-140	0		50	A
Aroclor 1260	72		75		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		96		30-150	A
Decachlorobiphenyl	75		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		101		30-150	B
Decachlorobiphenyl	85		93		30-150	B

PESTICIDES

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530886**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530886-07
Client ID: IRM-TS-COMPOSITE-01
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/28/15 11:48
Analyst: KE
Percent Solids: 75%

Date Collected: 11/23/15 15:15
Date Received: 11/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/26/15 04:28
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.12	0.415	1	A
Lindane	ND		ug/kg	0.882	0.394	1	A
Alpha-BHC	ND		ug/kg	0.882	0.251	1	A
Beta-BHC	ND		ug/kg	2.12	0.803	1	A
Heptachlor	ND		ug/kg	1.06	0.475	1	A
Aldrin	ND		ug/kg	2.12	0.746	1	A
Heptachlor epoxide	ND		ug/kg	3.97	1.19	1	A
Endrin	ND		ug/kg	0.882	0.362	1	A
Endrin aldehyde	ND		ug/kg	2.65	0.926	1	A
Endrin ketone	ND		ug/kg	2.12	0.545	1	A
Dieldrin	ND		ug/kg	1.32	0.662	1	A
4,4'-DDE	ND		ug/kg	2.12	0.490	1	A
4,4'-DDD	ND		ug/kg	2.12	0.755	1	A
4,4'-DDT	ND		ug/kg	3.97	1.70	1	A
Endosulfan I	ND		ug/kg	2.12	0.500	1	A
Endosulfan II	ND		ug/kg	2.12	0.708	1	A
Endosulfan sulfate	ND		ug/kg	0.882	0.420	1	A
Methoxychlor	ND		ug/kg	3.97	1.24	1	A
Toxaphene	ND		ug/kg	39.7	11.1	1	A
cis-Chlordane	ND		ug/kg	2.65	0.738	1	A
trans-Chlordane	ND		ug/kg	2.65	0.699	1	A
Chlordane	ND		ug/kg	17.2	7.02	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	79		30-150	A

Project Name: PHILIPS BATH IRMS**Lab Number:** L1530886**Project Number:** 34201-313**Report Date:** 11/30/15**SAMPLE RESULTS**

Lab ID: L1530886-08
Client ID: IRM-TS-COMPOSITE-02
Sample Location: BATH, NY
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/28/15 12:01
Analyst: KE
Percent Solids: 77%

Date Collected: 11/23/15 15:20
Date Received: 11/23/15
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 11/26/15 04:28
Cleanup Method: EPA 3620B
Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.03	0.398	1	A
Lindane	ND		ug/kg	0.847	0.379	1	A
Alpha-BHC	ND		ug/kg	0.847	0.240	1	A
Beta-BHC	ND		ug/kg	2.03	0.771	1	A
Heptachlor	ND		ug/kg	1.02	0.456	1	A
Aldrin	ND		ug/kg	2.03	0.716	1	A
Heptachlor epoxide	ND		ug/kg	3.81	1.14	1	A
Endrin	ND		ug/kg	0.847	0.347	1	A
Endrin aldehyde	ND		ug/kg	2.54	0.890	1	A
Endrin ketone	ND		ug/kg	2.03	0.524	1	A
Dieldrin	ND		ug/kg	1.27	0.635	1	A
4,4'-DDE	ND		ug/kg	2.03	0.470	1	A
4,4'-DDD	ND		ug/kg	2.03	0.725	1	A
4,4'-DDT	ND		ug/kg	3.81	1.64	1	A
Endosulfan I	ND		ug/kg	2.03	0.480	1	A
Endosulfan II	ND		ug/kg	2.03	0.679	1	A
Endosulfan sulfate	ND		ug/kg	0.847	0.403	1	A
Methoxychlor	ND		ug/kg	3.81	1.19	1	A
Toxaphene	ND		ug/kg	38.1	10.7	1	A
cis-Chlordane	ND		ug/kg	2.54	0.708	1	A
trans-Chlordane	ND		ug/kg	2.54	0.671	1	A
Chlordane	ND		ug/kg	16.5	6.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	69		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	74		30-150	A

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 11/28/15 09:50
 Analyst: KE

Extraction Method: EPA 3546
 Extraction Date: 11/26/15 04:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07-08 Batch: WG844591-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.633	0.283	A
Alpha-BHC	ND		ug/kg	0.633	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.759	0.340	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.854	A
Endrin	ND		ug/kg	0.633	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.949	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.633	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.886	A
Toxaphene	ND		ug/kg	28.5	7.97	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.3	5.03	A

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 11/28/15 09:50
 Analyst: KE

Extraction Method: EPA 3546
 Extraction Date: 11/26/15 04:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 11/27/15

Parameter	Result	Qualifier	Units	RL	MDL
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07-08 Batch: WG844591-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	100		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-08 Batch: WG844591-2 WG844591-3									
Delta-BHC	88		104		30-150	17		30	A
Lindane	85		98		30-150	14		30	A
Alpha-BHC	89		102		30-150	14		30	A
Beta-BHC	111		122		30-150	9		30	A
Heptachlor	95		115		30-150	19		30	A
Aldrin	87		104		30-150	18		30	A
Heptachlor epoxide	94		114		30-150	19		30	A
Endrin	90		107		30-150	17		30	A
Endrin aldehyde	72		92		30-150	24		30	A
Endrin ketone	84		99		30-150	16		30	A
Dieldrin	89		104		30-150	16		30	A
4,4'-DDE	90		109		30-150	19		30	A
4,4'-DDD	90		109		30-150	19		30	A
4,4'-DDT	103		120		30-150	15		30	A
Endosulfan I	90		105		30-150	15		30	A
Endosulfan II	101		121		30-150	18		30	A
Endosulfan sulfate	83		94		30-150	12		30	A
Methoxychlor	99		111		30-150	11		30	A
cis-Chlordane	92		111		30-150	19		30	A
trans-Chlordane	95		106		30-150	11		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-08 Batch: WG844591-2 WG844591-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		88		30-150	B
Decachlorobiphenyl	94		103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		102		30-150	A
Decachlorobiphenyl	95		108		30-150	A

METALS

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-07

Date Collected: 11/23/15 15:15

Client ID: IRM-TS-COMPOSITE-01

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	6.0		mg/kg	0.52	0.10	1	11/24/15 04:38	11/24/15 09:01	EPA 3050B	1,6010C	JH
Barium, Total	57		mg/kg	0.52	0.16	1	11/24/15 04:38	11/24/15 09:01	EPA 3050B	1,6010C	JH
Beryllium, Total	0.21	J	mg/kg	0.26	0.05	1	11/24/15 04:38	11/24/15 09:01	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.52	0.04	1	11/24/15 04:38	11/24/15 09:01	EPA 3050B	1,6010C	JH
Chromium, Total	9.0		mg/kg	0.52	0.10	1	11/24/15 04:38	11/24/15 09:01	EPA 3050B	1,6010C	JH
Copper, Total	68		mg/kg	0.52	0.10	1	11/24/15 04:38	11/24/15 09:01	EPA 3050B	1,6010C	JH
Lead, Total	4.4		mg/kg	2.6	0.10	1	11/24/15 04:38	11/24/15 09:01	EPA 3050B	1,6010C	JH
Manganese, Total	510		mg/kg	0.52	0.10	1	11/24/15 04:38	11/24/15 09:01	EPA 3050B	1,6010C	JH
Mercury, Total	0.05	J	mg/kg	0.09	0.02	1	11/24/15 11:10	11/25/15 16:17	EPA 7471B	1,7471B	DB
Nickel, Total	13		mg/kg	1.3	0.21	1	11/24/15 04:38	11/24/15 09:01	EPA 3050B	1,6010C	JH
Selenium, Total	0.24	J	mg/kg	1.0	0.16	1	11/24/15 04:38	11/24/15 09:01	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.52	0.10	1	11/24/15 04:38	11/24/15 09:01	EPA 3050B	1,6010C	JH
Zinc, Total	75		mg/kg	2.6	0.36	1	11/24/15 04:38	11/24/15 09:01	EPA 3050B	1,6010C	JH



Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-08

Date Collected: 11/23/15 15:20

Client ID: IRM-TS-COMPOSITE-02

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	9.7		mg/kg	0.50	0.10	1	11/24/15 04:38	11/24/15 09:54	EPA 3050B	1,6010C	JH
Barium, Total	57		mg/kg	0.50	0.15	1	11/24/15 04:38	11/24/15 09:54	EPA 3050B	1,6010C	JH
Beryllium, Total	0.18	J	mg/kg	0.25	0.05	1	11/24/15 04:38	11/24/15 09:54	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.50	0.04	1	11/24/15 04:38	11/24/15 09:54	EPA 3050B	1,6010C	JH
Chromium, Total	14		mg/kg	0.50	0.10	1	11/24/15 04:38	11/24/15 09:54	EPA 3050B	1,6010C	JH
Copper, Total	83		mg/kg	0.50	0.10	1	11/24/15 04:38	11/24/15 09:54	EPA 3050B	1,6010C	JH
Lead, Total	4.1		mg/kg	2.5	0.10	1	11/24/15 04:38	11/24/15 09:54	EPA 3050B	1,6010C	JH
Manganese, Total	420		mg/kg	0.50	0.10	1	11/24/15 04:38	11/24/15 09:54	EPA 3050B	1,6010C	JH
Mercury, Total	0.04	J	mg/kg	0.09	0.02	1	11/24/15 11:10	11/25/15 16:19	EPA 7471B	1,7471B	DB
Nickel, Total	12		mg/kg	1.3	0.20	1	11/24/15 04:38	11/24/15 09:54	EPA 3050B	1,6010C	JH
Selenium, Total	0.24	J	mg/kg	1.0	0.15	1	11/24/15 04:38	11/24/15 09:54	EPA 3050B	1,6010C	JH
Silver, Total	0.20	J	mg/kg	0.50	0.10	1	11/24/15 04:38	11/24/15 09:54	EPA 3050B	1,6010C	JH
Zinc, Total	75		mg/kg	2.5	0.35	1	11/24/15 04:38	11/24/15 09:54	EPA 3050B	1,6010C	JH

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 07-08 Batch: WG843739-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	11/24/15 11:10	11/25/15 15:04	1,7471B	DB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 07-08 Batch: WG843751-1										
Arsenic, Total	0.12	J	mg/kg	0.40	0.08	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	11/24/15 04:38	11/24/15 08:34	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG843739-2 SRM Lot Number: D088-540								
Mercury, Total	101		-		72-128	-		
Total Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG843751-2 SRM Lot Number: D088-540								
Arsenic, Total	105		-		79-121	-		
Barium, Total	99		-		83-117	-		
Beryllium, Total	97		-		83-117	-		
Cadmium, Total	92		-		83-117	-		
Chromium, Total	90		-		80-120	-		
Copper, Total	90		-		81-118	-		
Lead, Total	88		-		81-117	-		
Manganese, Total	93		-		81-118	-		
Nickel, Total	93		-		83-117	-		
Selenium, Total	91		-		78-122	-		
Silver, Total	98		-		75-124	-		
Zinc, Total	97		-		82-118	-		

Matrix Spike Analysis **Batch Quality Control**

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG843739-4 QC Sample: L1530885-06 Client ID: MS Sample												
Mercury, Total	ND	0.134	0.16	119		-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG843751-4 QC Sample: L1530824-01 Client ID: MS Sample												
Arsenic, Total	16.	12.9	32	124		-	-		75-125	-		20
Barium, Total	52.	216	270	101		-	-		75-125	-		20
Beryllium, Total	0.45J	5.39	5.6	104		-	-		75-125	-		20
Cadmium, Total	0.09J	5.5	5.6	102		-	-		75-125	-		20
Chromium, Total	29.	21.6	67	176	Q	-	-		75-125	-		20
Copper, Total	66.	26.9	100	126	Q	-	-		75-125	-		20
Lead, Total	170	55	130	0	Q	-	-		75-125	-		20
Manganese, Total	680	53.9	660	0	Q	-	-		75-125	-		20
Nickel, Total	15.	53.9	65	93		-	-		75-125	-		20
Selenium, Total	ND	12.9	12	93		-	-		75-125	-		20
Silver, Total	ND	32.3	30	93		-	-		75-125	-		20
Zinc, Total	470	53.9	500	56	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530886
Report Date: 11/30/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG843739-3 QC Sample: L1530885-06 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG843751-3 QC Sample: L1530824-01 Client ID: DUP Sample						
Lead, Total	170	110	mg/kg	43	Q	20

INORGANICS & MISCELLANEOUS

Project Name: PHILIPS BATH IRMS**Project Number:** 34201-313**Lab Number:** L1530886**Report Date:** 11/30/15**SAMPLE RESULTS****Lab ID:** L1530886-01**Client ID:** IRM-TS-DISCRETE-01**Sample Location:** BATH, NY**Matrix:** Soil**Date Collected:** 11/23/15 15:25**Date Received:** 11/23/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.6		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT



Project Name: PHILIPS BATH IRMS**Project Number:** 34201-313**Lab Number:** L1530886**Report Date:** 11/30/15**SAMPLE RESULTS****Lab ID:** L1530886-02**Client ID:** IRM-TS-DISCRETE-02**Sample Location:** BATH, NY**Matrix:** Soil**Date Collected:** 11/23/15 15:30**Date Received:** 11/23/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.4		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT



Project Name: PHILIPS BATH IRMS**Project Number:** 34201-313**Lab Number:** L1530886**Report Date:** 11/30/15**SAMPLE RESULTS****Lab ID:** L1530886-03**Client ID:** IRM-TS-DISCRETE-03**Sample Location:** BATH, NY**Matrix:** Soil**Date Collected:** 11/23/15 15:35**Date Received:** 11/23/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.8		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT



Project Name: PHILIPS BATH IRMS**Project Number:** 34201-313**Lab Number:** L1530886**Report Date:** 11/30/15**SAMPLE RESULTS****Lab ID:** L1530886-04**Client ID:** IRM-TS-DISCRETE-04**Sample Location:** BATH, NY**Matrix:** Soil**Date Collected:** 11/23/15 15:40**Date Received:** 11/23/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.1		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT



Project Name: PHILIPS BATH IRMS**Project Number:** 34201-313**Lab Number:** L1530886**Report Date:** 11/30/15**SAMPLE RESULTS****Lab ID:** L1530886-05**Client ID:** IRM-TS-DISCRETE-05**Sample Location:** BATH, NY**Matrix:** Soil**Date Collected:** 11/23/15 15:45**Date Received:** 11/23/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.3		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT



Project Name: PHILIPS BATH IRMS**Project Number:** 34201-313**Lab Number:** L1530886**Report Date:** 11/30/15**SAMPLE RESULTS****Lab ID:** L1530886-06**Client ID:** IRM-TS-DISCRETE-06**Sample Location:** BATH, NY**Matrix:** Soil**Date Collected:** 11/23/15 15:50**Date Received:** 11/23/15**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.0		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT



Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530886
Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-07
Client ID: IRM-TS-COMPOSITE-01
Sample Location: BATH, NY
Matrix: Soil

Date Collected: 11/23/15 15:15
Date Received: 11/23/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	9.0		mg/kg	1.1	1.1	1	-	11/28/15 14:56	107,-	
Solids, Total	74.9		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.2	0.29	1	11/24/15 09:30	11/25/15 09:26	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	1.1	0.21	1	11/25/15 06:55	11/28/15 14:56	1,7196A	JT



Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

SAMPLE RESULTS

Lab ID: L1530886-08

Date Collected: 11/23/15 15:20

Client ID: IRM-TS-COMPOSITE-02

Date Received: 11/23/15

Sample Location: BATH, NY

Field Prep: Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	14		mg/kg	1.0	1.0	1	-	11/28/15 14:57	107,-	
Solids, Total	76.9		%	0.100	NA	1	-	11/24/15 04:02	30,2540G	RT
Cyanide, Total	ND		mg/kg	1.2	0.28	1	11/24/15 09:30	11/25/15 09:27	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	1.0	0.21	1	11/25/15 06:55	11/28/15 14:57	1,7196A	JT



Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 07-08 Batch: WG843798-1										
Cyanide, Total	ND		mg/kg	0.97	0.23	1	11/24/15 09:30	11/25/15 09:16	1,9010C/9012B	ML
General Chemistry - Westborough Lab for sample(s): 07-08 Batch: WG844205-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	11/25/15 06:55	11/28/15 14:53	1,7196A	JT

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07-08 Batch: WG843798-2 WG843798-3								
Cyanide, Total	106		103		80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 07-08 Batch: WG844205-2								
Chromium, Hexavalent	88		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Lab Number: L1530886

Project Number: 34201-313

Report Date: 11/30/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MS Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
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General Chemistry - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG843798-4 WG843798-5 QC Sample: L1530884-02 Client ID: MS Sample

Cyanide, Total	ND	11	10	90		10	90		65-135	0		35
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General Chemistry - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG844205-4 QC Sample: L1530884-02 Client ID: MS Sample

Chromium, Hexavalent	ND	1350	1300	96		-	-		75-125	-		20
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Lab Duplicate Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG843762-1 QC Sample: L1530617-01 Client ID: DUP Sample						
Solids, Total	89.1	89.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG844205-6 QC Sample: L1530884-02 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 11/24/2015 02:59

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1530886-01A	Vial MeOH preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-01B	Vial water preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-01C	Vial water preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-01D	Plastic 2oz unpreserved for TS	A	N/A	4.5	Y	Absent	TS(7)
L1530886-02A	Vial MeOH preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-02B	Vial water preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-02C	Vial water preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-02D	Plastic 2oz unpreserved for TS	A	N/A	4.5	Y	Absent	TS(7)
L1530886-03A	Vial MeOH preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-03B	Vial water preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-03C	Vial water preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-03D	Plastic 2oz unpreserved for TS	A	N/A	4.5	Y	Absent	TS(7)
L1530886-04A	Vial MeOH preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-04B	Vial water preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-04C	Vial water preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-04D	Plastic 2oz unpreserved for TS	A	N/A	4.5	Y	Absent	TS(7)
L1530886-05A	Vial MeOH preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-05B	Vial water preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-05C	Vial water preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-05D	Plastic 2oz unpreserved for TS	A	N/A	4.5	Y	Absent	TS(7)
L1530886-06A	Vial MeOH preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-06B	Vial water preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-06C	Vial water preserved	A	N/A	4.5	Y	Absent	NYTCL-8260HLW(14)
L1530886-06D	Plastic 2oz unpreserved for TS	A	N/A	4.5	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days



Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1530886

Report Date: 11/30/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1530886-07A	Glass 250ml/8oz unpreserved	A	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),NYTCL-8082(14),CD-TI(180),HEXCR-7196(30)
L1530886-08A	Glass 250ml/8oz unpreserved	A	N/A	4.5	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TRICR-CALC(30),TS(7),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),NYTCL-8081(14),HG-T(28),MN-TI(180),NYTCL-8082(14),CD-TI(180),HEXCR-7196(30)

Container Comments

L1530886-07A

L1530886-08A

*Values in parentheses indicate holding time in days

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530886
Report Date: 11/30/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers



Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530886
Report Date: 11/30/15

Data Qualifiers

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1530886
Report Date: 11/30/15

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 107 Alpha Analytical - In-house calculation method.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 8260C: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; Iodomethane (methyl iodide) (soil); Methyl methacrylate (soil); Azobenzene.

EPA 8270D: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 625: 4-Chloroaniline, 4-Methylphenol.

SM4500: Soil: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

EPA 8270D: Biphenyl.

EPA 2540D: TSS

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

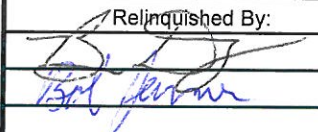
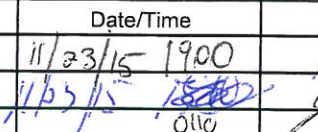
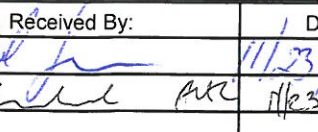
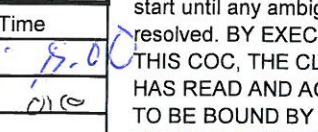
EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

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

 ALPHA ANALYTICAL Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 11/23/15		ALPHA Job # L1530886																																																																																																																																																																																																											
		Project Information Project Name: Philips Bath IRMs Project Location: Bath, NY Project #: 34201-313 (Use Project name as Project #) ☐				Deliverables ☐ ASP-A ☒ ASP-B ☐ EQULS (1 File) ☐ EQULS (4 File) ☐ Other				Billing Information ☒ Same as Client Info PO # 14157																																																																																																																																																																																																									
		Client Information Client: Haley & Aldrich, Inc. Address: 200 Town Centre Drive, Suite 2 Rochester, NY Phone: 585-321-4235 Fax: Email: bdrayn@haleyaldrich.com				Regulatory Requirement ☐ NY TOGS ☒ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																																																																																																																																																																																																									
Turn-Around Time Standard ☐ Rush (only if pre approved) ☒ 3-5 Days Due Date: 11/30/15 # of Days:				ANALYSIS TCL VOC 8260-5032 TCL SVOC TCL Pest Pt 375 Metals PCBs 8082				Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)																																																																																																																																																																																																											
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:																																																																																																																																																																																																																			
Please specify Metals or TAL.																																																																																																																																																																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th colspan="10">Analysis</th> <th rowspan="2">Sample Specific Comments</th> <th rowspan="2">Total Bottles</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>TCL VOC 8260-5032</th> <th>TCL SVOC</th> <th>TCL Pest</th> <th>Pt 375 Metals</th> <th>PCBs 8082</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>20886-01</td> <td>IRM-TS-DISCRETE-01</td> <td>11/23/15</td> <td>1535</td> <td>SO</td> <td>BD</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>02</td> <td>IRM-TS-DISCRETE-02</td> <td>11/23/15</td> <td>1530</td> <td>SO</td> <td>BD</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>03</td> <td>IRM-TS-DISCRETE-03</td> <td>11/23/15</td> <td>1535</td> <td>SO</td> <td>BD</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>04</td> <td>IRM-TS-DISCRETE-04</td> <td>11/23/15</td> <td>1540</td> <td>SO</td> <td>BD</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>05</td> <td>IRM-TS-DISCRETE-05</td> <td>11/23/15</td> <td>1545</td> <td>SO</td> <td>BD</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>06</td> <td>IRM-TS-DISCRETE-06</td> <td>11/23/15</td> <td>1550</td> <td>SO</td> <td>BD</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>07</td> <td>IRM-TS-COMPOSITE-01</td> <td>11/23/15</td> <td>1540</td> <td>SO</td> <td>BD</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>08</td> <td>IRM-TS-COMPOSITE-02</td> <td>11/23/15</td> <td>1550</td> <td>SO</td> <td>BD</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>1530</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Analysis										Sample Specific Comments	Total Bottles	Date	Time	TCL VOC 8260-5032	TCL SVOC	TCL Pest	Pt 375 Metals	PCBs 8082							20886-01	IRM-TS-DISCRETE-01	11/23/15	1535	SO	BD	X													02	IRM-TS-DISCRETE-02	11/23/15	1530	SO	BD	X													03	IRM-TS-DISCRETE-03	11/23/15	1535	SO	BD	X													04	IRM-TS-DISCRETE-04	11/23/15	1540	SO	BD	X													05	IRM-TS-DISCRETE-05	11/23/15	1545	SO	BD	X													06	IRM-TS-DISCRETE-06	11/23/15	1550	SO	BD	X													07	IRM-TS-COMPOSITE-01	11/23/15	1540	SO	BD		X	X	X	X									08	IRM-TS-COMPOSITE-02	11/23/15	1550	SO	BD		X	X	X	X												1530															
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Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type SO35 Kit ← 802 →		Preservative /		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <u>TERMS & CONDITIONS</u> .																																																																																																																																																																																																									
Relinquished By:		Date/Time 11/23/15 1900		Received By:		Date/Time 11/23/15 1900																																																																																																																																																																																																													
																																																																																																																																																																																																																			

APPENDIX F

Waste Disposal Documentation – C&D Debris

STEUBEN COUNTY D.P.W.
BATH LANDFILL

TK 107
LD 1

①

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3361788
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH ---In--- ---Out---
PT = 0 - Not Found Date 11/20/15 11/20/15
OT = 395 - Out of Steuben Coun Time 07:58 08:13

Material Types

1010 - Construction Debris

	<u>Lbs</u>	<u>Tons</u>
Gross	59840	29.92
Tare	31920	15.96
NET	27920	13.96

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137
PO No. 15480

THK 107
LD 1

I am 2

~~BUD Soil - 8/20/15~~ ①

STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 Stato Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDRC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

Tr 112
L-1

**STEUBEN COUNTY D.P.W.
BATH LANDFILL**

(2)

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: **3361792**
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH Date 11/20/15 11/20/15
PT = 0 - Not Found Time 08:14 08:18
OT = 395 - Out of Steuben Coun

Material Types
1010 - Construction Debris

	<u>Lbs</u>	<u>Tons</u>
Gross	53020	26.51
Tare	29940	14.97
NET	23080	11.54

VOL/QY/CYD = 0

Driver: Dewy Weighmaster: Lucinda H Whitney 460137
PO #15480

TR-112
Ld 1

IRM 2

BUD Soil \$20/Ton (2)

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
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Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
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Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

Tr-109

L 1

**STEBEN COUNTY D.P.W.
BATH LANDFILL**

③

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: **3361795**
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH ---In--- ---Out---
PT = 0 - Not Found Date 11/20/15 11/20/15
OT = 395 - Out of Steuben Coun Time 08:14 08:25

Material Types

1010 - Construction Debris

	<u>Lbs</u>	<u>Tons</u>
Gross	55000	27.50
Tare	26580	13.29
NET	28420	14.21

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO No. 15480

***** REPRINTED TICKET *****

Tr-109
L-1

IRM 2

~~BUDGET 2017~~ 3

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

**SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400**

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete.		
Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results		
Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Pennl Law.		

Tr# 107
L-2

STEBEN COUNTY D.P.W.
BATH LANDFILL

(d)

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: **3361805**
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841 ---In--- ---Out---
TT = 100 - Commercial BY WEIGH Date 11/20/15 11/20/15
PT = 0 - Not Found Time 09:02 09:14
OT = 395 - Out of Steuben Coun

Material Types
1010 - Construction Debris

	<u>Lbs</u>	<u>Tons</u>
Gross	62380	31.19
Tare	31820	15.91
NET	30560	15.28

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO No. 15480

***** REPRINTED TICKET *****

TRK #107
Ld 2

IRM 2

~~Bath~~

(4)

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

T4/12
L-2

STEUBEN COUNTY D.P.W.
BATH LANDFILL

(B)
(5)

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3361809
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH Date 11/20/15 11/20/15
PT = 0 - Not Found Time 09:12 09:21
OT = 395 - Out of Steuben Coun

Material Types
1010 - Construction Debris

	<u>Lbs</u>	<u>Tons</u>
Gross	65600	32.80
Tare	29960	14.98
NET	35640	17.82

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137
PO No. 15480

TK# 112

I am 2

~~Bath, NY 14810~~

5

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material Is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

TR109
L-2

STEBEN COUNTY D.P.W.
BATH LANDFILL

(6)

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3361818
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH Date 11/20/15 11/20/15
PT = 0 - Not Found Time 09:33 09:46
OT = 395 - Out of Steuben Coun

Material Types
1010 - Construction Debris

	Lbs	Tons
Gross	58320	29.16
Tare	26480	13.24
NET	31840	15.92

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO No. 15480 IRM 2
***** REPRINTED TICKET *****

Tk# 109
L-2

IRm 2

~~3012 Soil 82115~~

(6)

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDRC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

Tr# 107
L-3

STEUBEN COUNTY D.P.W.
BATH LANDFILL

⑦

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3361833
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH ---In--- ---Out---
PT = 0 - Not Found Date 11/20/15 11/20/15
OT = 395 - Out of Steuben Coun Time 10:08 10:21

Material Types
1010 - Construction Debris

	<u>Lbs</u>	<u>Tons</u>
Gross	70180	35.09
Tare	31740	15.87
NET	38440	19.22

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO No. 15480 IRM 2
***** REPRINTED TICKET *****

Tr-H 107
L-3

I am 2

12 ~~12~~ 2015 (7)

STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810

APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
 70 Blanchard Road #204, Burlington, MA 01803
 Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	
Material is: ☐ Hazardous ☒ Non-Hazardous		
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195
		Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

⑧

Driver: _____ Weighmaster: Lucinda H Whitney 460137
PO #15480 IRM-2

TR# 112
L-3

IRm 2

STEUBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810

APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21

~~13005-10-10W~~ (5)

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

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SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
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Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
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Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
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Tr# 107
L-3

STEBEN COUNTY D.P.W.
BATH LANDFILL

9

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: **3361842**
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH Date 11/20/15 11/20/15
PT = 0 - Not Found Time 10:27 10:41
OT = 395 - Out of Steuben Coun

Material Types
1010 - Construction Debris

	<u>Lbs</u>	<u>Tons</u>
Gross	57260	28.63
Tare	26520	13.26
NET	30740	15.37

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO No. 15480 IRM2
***** REPRINTED TICKET *****

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE		
☒ APPROVED		☐ DISAPPROVED
DATE 16 July '15		DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone:(617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
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Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
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Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete.		
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Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDRC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

Tr# 107
L-4

**STEBEN COUNTY D.P.W.
BATH LANDFILL**

(10)

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3361861
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841 ---In--- ---Out---
TT = 100 - Commercial BY WEIGH Date 11/20/15 11/20/15
PT = 0 - Not Found Time 11:11 11:21
OT = 395 - Out of Steuben Coun

Material Types
1010 - Construction Debris

	<u>Lbs</u>	<u>Tons</u>
Gross	58580	29.29
Tare	31760	15.88
NET	26820	13.41

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO #15480 IRM2

***** REPRINTED TICKET *****

Tr#107
L-4

IRM 2

~~Bath, NY 14810~~

10

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
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Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
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Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
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Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

Tr# 112
L-4

STEUBEN COUNTY D.P.W.
BATH LANDFILL

(11)

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3361868
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH
PT = 0 - Not Found
OT = 395 - Out of Steuben Coun

---In--- ---Out---
Date 11/20/15 11/20/15
Time 11:26 11:36

Material Types
1010 - Construction Debris

	<u>Lbs</u>	<u>Tons</u>
Gross	59280	29.64
Tare	29820	14.91
NET	29460	14.73

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137
PO #15480 IRM2

TR#112
L-4

IRm 2

~~12-1-90~~ (11)

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE <i>16 July '15</i>	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: **Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400**

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDRC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

Tr#-109

STEUBEN COUNTY D.P.W.
BATH LANDFILL

12

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3361873
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH Date 11/20/15 11/20/15
PT = 0 - Not Found Time 11:39 11:49
OT = 395 - Out of Steuben Coun

Material Types
1010 - Construction Debris

	<u>Lbs</u>	<u>Tons</u>	
Gross	50920	25.46	:
Tare	26500	13.25	
NET	24420	12.21	

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO #15480 IRM2
***** REPRINTED TICKET *****

Tr 109
L-4

IRM 2

Bath Station

12

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

Tr # 107
L-5

**STEBEN COUNTY D.P.W.
BATH LANDFILL**

(13)

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: **3361881**
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH ---In--- ---Out---
PT = 0 - Not Found Date 11/20/15 11/20/15
OT = 395 - Out of Steuben Coun Time 12:12 12:21

Material Types
1010 - Construction Debris

	<u>Lbs</u>	<u>Tons</u>
Gross	73040	36.52
Tare	31720	15.86
NET	41320	20.66

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137
PO #15480 IRM2

Tr#107
L-5

I am 2

~~Bath~~ ~~NY~~ ~~14810~~

(13)

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

APPENDIX G

Waste Disposal Documentation – Gravel

Tr 112
L1

STEUBEN COUNTY D.P.W.
BATH LANDFILL

(38) (10)

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3362221
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841 ---In--- ---Out---
TT = 100 - Commercial BY WEIGH Date 11/23/15 11/23/15
PT = 0 - Not Found Time 12:50 12:59
OT = 395 - Out of Steuben Coun

Material Types
1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
Gross	63520	31.76
Tare	29620	14.81
NET	33900	16.95

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137
PO #15480 IRM-62

STEUBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810

APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21

BUD Soil

38

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDRC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

Tr 109
L-1

STEUBEN COUNTY D.P.W.
BATH LANDFILL

(39)

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3362234
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH Date 11/23/15 11/23/15
PT = 0 - Not Found Time 13:19 13:31
OT = 395 - Out of Steuben Coun

Material Types
1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
Gross	63500	31.75
Tare	26260	13.13
NET	37240	18.62

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO #15480 IRM-2

***** REPRINTED TICKET *****

109
L1

IRM 2

BUD Soil

(39)

**STEUBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material Is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

1-2

(46)

Material Types
1200 - BUD - Soil

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137
PO #15480 IRM-2

Tr 112
L-2

IRm 2

BUD Soil

(40)

STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
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Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

Triller
L-1

**STEBEN COUNTY D.P.W.
BATH LANDFILL**

(46)

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: **3362288**
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH ---In--- ---Out---
PT = 0 - Not Found Date 11/24/15 11/24/15
OT = 395 - Out of Steuben Coun Time 09:20 09:29

Material Types
1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
Gross	73960	36.98
Tare	29980	14.99
NET	43980	21.99

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO #15480 IRM-2
***** REPRINTED TICKET *****

112
L-1

IRM 2

BUD Soil

46

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jermy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete.		
Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results		
Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

109
L-2

STEUBEN COUNTY D.P.W.
BATH LANDFILL

~~218~~
217

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3362296
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH Date 11/24/15 11/24/15
PT = 0 - Not Found Time 09:59 10:09
OT = 395 - Out of Steuben Coun

Material Types
1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
Gross	71060	35.53
Tare	26560	13.28
NET	44500	22.25

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO #15480 IRM-2

***** REPRINTED TICKET *****

107
L-2

IRM 2

BUD Soil

47

**STEUBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

**SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400**

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
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Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSD&C Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

STEUBEN COUNTY D.P.W.
BATH LANDFILL

(48)

#3.

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3362300
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH
PT = 0 - Not Found
OT = 395 - Out of Steuben Coun

---In--- ---Out---
Date 11/24/15 11/24/15
Time 10:11 10:19

Material Types
1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
Gross	69080	34.54
Tare	29940	14.97
NET	39140	19.57

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

IRM 2

BUD Soil

48

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete.		
Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results		
Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDPC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

TR 109
L 4

STEUBEN COUNTY D.P.W.
BATH LANDFILL

(49)

IRM#2

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3362318
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841 ---In--- ---Out---
TT = 100 - Commercial BY WEIGH Date 11/24/15 11/24/15
PT = 0 - Not Found Time 10:52 11:02
OT = 395 - Out of Steuben Coun

Material Types
1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
Gross	72300	36.15
Tare	26520	13.26
NET	45780	22.89

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO #15480 IRM-2

***** REPRINTED TICKET *****

Tr 109
L-4

IRM 2

BUD Soil

49

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

STEUBEN COUNTY D.P.W.
BATH LANDFILL

(50) 45

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3362319

Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68

Vehicle# : C6841

TT = 100 - Commercial BY WEIGH

PT = 0 - Not Found

OT = 395 - Out of Steuben Coun

---In--- ---Out---

Date 11/24/15 11/24/15

Time 10:59 11:07

Material Types

1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
Gross	70260	35.13
Tare	29960	14.98
NET	40300	20.15

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO #15480 IRM-2

I am 2

BUD Soil

(50)

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDRC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

TR 109

STEUBEN COUNTY D.P.W.

L# 6 IRM 2

BATH LANDFILL

(51)

Bill Acct: HALEALDR

Haul Acct: HALEALDR

Tran#: 3362338

Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68

Vehicle# : C6841

---In--- ---Out--

TT = 100 - Commercial BY WEIGH

Date 11/24/15 11/24/15

PT = 0 - Not Found

Time 11:42 11:53

OT = 395 - Out of Steuben Coun

Material Types

1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
Gross	66480	33.24
Tare	26460	13.23
NET	40020	20.01

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137

PO #15480 IRM-2

***** REPRINTED TICKET *****

Tr 109
L 6

IRM 2

BUD Soil

51

STEUBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810

APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDRC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

STEUBEN COUNTY D.P.W.
BATH LANDFILL

(52)

④

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3362341
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH ---In--- ---Out---
PT = 0 - Not Found Date 11/24/15 11/24/15
OT = 395 - Out of Steuben Coun Time 11:54 12:03

Material Types

1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>	
Gross	56880	28.44	:
Tare	29880	14.94	
NET	27000	13.50	

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137
PO #15480 IRM-2

I am 2

BUD Soil

(52)

STEUBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810

APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 Stato Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jercmy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPL/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete.		
Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results		
Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

STEUBEN COUNTY D.P.W.
BATH LANDFILL



Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3362355
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH ---In--- ---Out---
PT = 0 - Not Found Date 11/24/15 11/24/15
OT = 395 - Out of Steuben Coun Time 12:44 12:56

Material Types
1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
Gross	68540	34.27
Tare	29880	14.94
NET	38660	19.33

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137
IRM-2

Tr 112
-3

IRm 2

BUD Soil

(53)

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

**SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400**

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

T-113
STEUBEN COUNTY D.P.W.
BATH LANDFILL

(54) (S)

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3362362
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841 ---In--- ---Out---
TT = 100 - Commercial BY WEIGH Date 11/24/15 11/24/15
PT = 0 - Not Found Time 13:12 13:20
OT = 395 - Out of Steuben Coun

Material Types
1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
Gross	79980	39.99
Tare	30040	15.02
NET	49940	24.97

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137
PO #15480 IRM-2

TR 113
L-1

IRM 2

BUD Soil

(54)

**STEUBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PIPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete.		
Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results		
Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

STEUBEN COUNTY D.P.W.
BATH LANDFILL

(55) (55)

ct: HALEALDR Haul Acct: HALEALDR Tran#: 3362366
: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
: C6841 ---In--- ---Out---
00 - Commercial BY WEIGH Date 11/24/15 11/24/15
- Not Found Time 13:35 13:43
95 - Out of Steuben Coun

Material Types

200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
ss	72640	36.32
re	29820	14.91
ET	42820	21.41

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137
PO #15480 IRM-2

Irm 2

BUD Soil

(55)

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete.		
Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results		
Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

113
STEUBEN COUNTY D.P.W.
BATH LANDFILL

(56) (Handwritten signature)

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3362372
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841
TT = 100 - Commercial BY WEIGH ---In--- ---Out---
PT = 0 - Not Found Date 11/24/15 11/24/15
OT = 395 - Out of Steuben Coun Time 13:58 14:06

Material Types
1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
Gross	64680	32.34
Tare	30020	15.01
NET	34660	17.33

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137
PO #15480 IRM-2

IRM 2

BUD Soil

56

**STEBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete.		
Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results		
Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

STEUBEN COUNTY D.P.W.
BATH LANDFILL

(57)

F2

Bill Acct: HALEALDR Haul Acct: HALEALDR Tran#: 3362379
Company: HALEY & ALDRICH CONST 6 Company: HALEY & ALDRICH CONST 68
Vehicle# : C6841 ---In--- ---Out---
TT = 100 - Commercial BY WEIGH Date 11/24/15 11/24/15
PT = 0 - Not Found Time 14:33 14:42
OT = 395 - Out of Steuben Coun

Material Types

1200 - BUD - Soil

	<u>Lbs</u>	<u>Tons</u>
Gross	72020	36.01
Tare	29840	14.92
NET	42180	21.09

VOL/QY/CYD = 0

Driver: _____ Weighmaster: Lucinda H Whitney 460137
PO #15480 IRM-2

I am 2

BUD Soil

(57)

**STEUBEN COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
3 EAST PULTENEY SQUARE
BATH, NEW YORK 14810**

**APPLICATION FOR DISPOSAL OF AN
INDUSTRIAL WASTE STREAM
BATH LANDFILL - SITE NO. 51S21**

FOR COUNTY USE	
☒ APPROVED	☐ DISAPPROVED
DATE 16 July '15	DATE SENT TO DEC

Please Note: A copy of the approved application must accompany each load.

**SEND INVOICE TO: Haley & Aldrich Construction Services, Inc.
70 Blanchard Road #204, Burlington, MA 01803
Phone: (617) 886-7400**

Company Generating Waste Phillips Lighting Company	Address of Generator 7625 State Route 54 Bath NY 14810	Telephone No. 1-(570)-748-6492
Representative of Generator Jeremy DeGrande Project Manager	Address of Generator Representative 70 Blanchard Road #204, Burlington, MA 01803	Telephone No. 1-(734)-968-9101
Description of Process Producing Waste Remediation Demolition and Excavation associated with the removal of the concrete pads and sub-base gravel from the former electrical substation.		
Expected Annual Waste Production 450 Tons/Year	Waste Hauled In ☐ Roll-Off ☒ Dump Truck ☐ Compactor Truck ☐ Other	
Waste Composition Average Percent Solids 100.00%	Physical State ☐ Slurry ☐ Sludge ☒ Solid	
Description of Waste 1) Gravel 84.5% 2) Concrete 14.5% 3) PPE/Debris 1% 4)		
Is An Analysis of Waste Attached? ☒ Yes ☐ No	Was EPA Toxicity Test Conducted on Waste? ☒ Yes ☐ No If Yes, Attach Results	Material is: ☐ Hazardous ☒ Non-Hazardous
Detail All Hazardous and Nuisance Problems Associated with the Waste. List Necessary Safety, Handling, and Disposal Precautions. Solid non-hazardous waste gravel and sized concrete. Summary Tables are attached as follows: Table I - IRM-2: Summary of Phase II Sampling Results Table II - IRM-2: Summary of Pre-Characterization Sampling Results Analytical Results are attached as follows: ESC Lab Sciences Report L572364, which includes 3 grab samples of gravel and 10 grab samples of concrete Alpha Analytical Report L1501858, which includes 1 composite sample of concrete and gravel		
Name of Waste Transporter Dickson Trucking	Address 72971 Knight Settlement Road, Bath, NY 14810	NYSDEC Permit No. 8A195 Telephone No. 607-776-7055
CERTIFICATION I hereby affirm under penalty of perjury that information provided in this form and attached statements exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.		

APPENDIX H

Decontamination Water Sample Laboratory Report



ANALYTICAL REPORT

Lab Number:	L1600082
Client:	Haley & Aldrich 200 Town Centre Drive Suite 2 Rochester, NY 14623-4264
ATTN:	Benjamin Drayn
Phone:	(585) 321-4245
Project Name:	PHILIPS BATH IRMS
Project Number:	34201-313
Report Date:	01/05/16

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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



Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1600082
Report Date: 01/05/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1600082-01	2016-0104-WATER	WATER	BATH, NY	01/04/16 15:00	01/04/16

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1600082
Report Date: 01/05/16

Case Narrative

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

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

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

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

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1600082
Report Date: 01/05/16

Case Narrative (continued)

Report Submission

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

Metals

The WG854756-3 Laboratory Duplicate RPDs, performed on L1600082-01, are outside the acceptance criteria for arsenic (56%), chromium (70%), copper (36%), lead (27%), nickel (39%), and zinc (23%). The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 01/05/16

ORGANICS

VOLATILES

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1600082
Report Date: 01/05/16

SAMPLE RESULTS

Lab ID: L1600082-01
Client ID: 2016-0104-WATER
Sample Location: BATH, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/05/16 10:49
Analyst: PD

Date Collected: 01/04/16 15:00
Date Received: 01/04/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1600082
Report Date: 01/05/16

SAMPLE RESULTS

Lab ID: L1600082-01
Client ID: 2016-0104-WATER
Sample Location: BATH, NY

Date Collected: 01/04/16 15:00
Date Received: 01/04/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	7.3		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	110		70-130

Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 01/05/16 10:16
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG854863-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 01/05/16 10:16
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG854863-3					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 01/05/16 10:16

Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG854863-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	110		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1600082

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG854863-1 WG854863-2								
Methylene chloride	102		96		70-130	6		20
1,1-Dichloroethane	100		97		70-130	3		20
Chloroform	96		91		70-130	5		20
2-Chloroethylvinyl ether	82		77		70-130	6		20
Carbon tetrachloride	97		95		63-132	2		20
1,2-Dichloropropane	96		93		70-130	3		20
Dibromochloromethane	92		91		63-130	1		20
1,1,2-Trichloroethane	91		85		70-130	7		20
Tetrachloroethene	95		89		70-130	7		20
Chlorobenzene	97		92		75-130	5		20
Trichlorofluoromethane	63		61	Q	62-150	3		20
1,2-Dichloroethane	90		83		70-130	8		20
1,1,1-Trichloroethane	98		92		67-130	6		20
Bromodichloromethane	91		89		67-130	2		20
trans-1,3-Dichloropropene	90		87		70-130	3		20
cis-1,3-Dichloropropene	93		87		70-130	7		20
1,1-Dichloropropene	95		91		70-130	4		20
Bromoform	79		79		54-136	0		20
1,1,2,2-Tetrachloroethane	92		88		67-130	4		20
Benzene	93		90		70-130	3		20
Toluene	96		91		70-130	5		20

Lab Control Sample Analysis Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1600082

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG854863-1 WG854863-2								
Ethylbenzene	89		82		70-130	8		20
Chloromethane	120		107		64-130	11		20
Bromomethane	93		83		39-139	11		20
Vinyl chloride	88		80		55-140	10		20
Chloroethane	70		64		55-138	9		20
1,1-Dichloroethene	63		63		61-145	0		20
trans-1,2-Dichloroethene	99		96		70-130	3		20
Trichloroethene	94		88		70-130	7		20
1,2-Dichlorobenzene	100		91		70-130	9		20
1,3-Dichlorobenzene	105		94		70-130	11		20
1,4-Dichlorobenzene	100		92		70-130	8		20
Methyl tert butyl ether	84		80		63-130	5		20
p/m-Xylene	89		84		70-130	6		20
o-Xylene	84		77		70-130	9		20
cis-1,2-Dichloroethene	97		92		70-130	5		20
Dibromomethane	95		92		70-130	3		20
1,2,3-Trichloropropane	88		86		64-130	2		20
Acrylonitrile	94		91		70-130	3		20
Isopropyl Ether	98		93		70-130	5		20
tert-Butyl Alcohol	102		95		70-130	7		20
Styrene	86		80		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1600082

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG854863-1 WG854863-2								
Dichlorodifluoromethane	92		85		36-147	8		20
Acetone	65		49	Q	58-148	28	Q	20
Carbon disulfide	63		58		51-130	8		20
2-Butanone	76		77		63-138	1		20
Vinyl acetate	89		84		70-130	6		20
4-Methyl-2-pentanone	72		64		59-130	12		20
2-Hexanone	73		66		57-130	10		20
Bromochloromethane	102		98		70-130	4		20
2,2-Dichloropropane	101		95		63-133	6		20
1,2-Dibromoethane	89		87		70-130	2		20
1,3-Dichloropropane	92		87		70-130	6		20
1,1,1,2-Tetrachloroethane	99		94		64-130	5		20
Bromobenzene	104		93		70-130	11		20
n-Butylbenzene	96		85		53-136	12		20
sec-Butylbenzene	94		81		70-130	15		20
tert-Butylbenzene	76		66	Q	70-130	14		20
o-Chlorotoluene	103		94		70-130	9		20
p-Chlorotoluene	98		90		70-130	9		20
1,2-Dibromo-3-chloropropane	92		82		41-144	11		20
Hexachlorobutadiene	101		82		63-130	21	Q	20
Isopropylbenzene	97		90		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1600082

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG854863-1 WG854863-2								
p-Isopropyltoluene	91		79		70-130	14		20
Naphthalene	84		77		70-130	9		20
n-Propylbenzene	97		87		69-130	11		20
1,2,3-Trichlorobenzene	96		85		70-130	12		20
1,2,4-Trichlorobenzene	97		82		70-130	17		20
1,3,5-Trimethylbenzene	98		88		64-130	11		20
1,2,4-Trimethylbenzene	100		88		70-130	13		20
Methyl Acetate	105		99		70-130	6		20
Ethyl Acetate	87		83		70-130	5		20
Cyclohexane	94		92		70-130	2		20
Ethyl-Tert-Butyl-Ether	87		85		70-130	2		20
Tertiary-Amyl Methyl Ether	79		77		66-130	3		20
1,4-Dioxane	147		96		56-162	42	Q	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	61	Q	59	Q	70-130	3		20
p-Diethylbenzene	83		70		70-130	17		20
p-Ethyltoluene	87		78		70-130	11		20
1,2,4,5-Tetramethylbenzene	87		73		70-130	18		20
Ethyl ether	59		57	Q	59-134	3		20
trans-1,4-Dichloro-2-butene	88		86		70-130	2		20
Methyl cyclohexane	87		83		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG854863-1 WG854863-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	103		99		70-130
Dibromofluoromethane	104		106		70-130

SEMIVOLATILES

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1600082
Report Date: 01/05/16

SAMPLE RESULTS

Lab ID: L1600082-01
Client ID: 2016-0104-WATER
Sample Location: BATH, NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 01/05/16 12:42
Analyst: RC

Date Collected: 01/04/16 15:00
Date Received: 01/04/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 01/05/16 03:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.1	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1600082
Report Date: 01/05/16

SAMPLE RESULTS

Lab ID: L1600082-01
Client ID: 2016-0104-WATER
Sample Location: BATH, NY

Date Collected: 01/04/16 15:00
Date Received: 01/04/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	23		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	3.6	1
Atrazine	ND		ug/l	10	1.8	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	99		15-120
2,4,6-Tribromophenol	113		10-120
4-Terphenyl-d14	102		41-149

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1600082
Report Date: 01/05/16

SAMPLE RESULTS

Lab ID: L1600082-01
Client ID: 2016-0104-WATER
Sample Location: BATH, NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 01/05/16 11:42
Analyst: KV

Date Collected: 01/04/16 15:00
Date Received: 01/04/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 01/05/16 03:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.20	0.04	1
Benzo(a)anthracene	ND		ug/l	0.20	0.02	1
Benzo(a)pyrene	ND		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04	1
Chrysene	ND		ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	ND		ug/l	0.20	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.04	1
Fluorene	ND		ug/l	0.20	0.04	1
Phenanthrene	0.83		ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04	1
Pyrene	ND		ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1600082
Report Date: 01/05/16

SAMPLE RESULTS

Lab ID: L1600082-01
Client ID: 2016-0104-WATER
Sample Location: BATH, NY

Date Collected: 01/04/16 15:00
Date Received: 01/04/16
Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	113		15-120
2,4,6-Tribromophenol	119		10-120
4-Terphenyl-d14	95		41-149

Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 01/05/16 09:31
 Analyst: KV

Extraction Method: EPA 3510C
 Extraction Date: 01/05/16 03:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG854737-1					
Acenaphthene	ND		ug/l	0.20	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.20	0.04
Benzo(a)anthracene	ND		ug/l	0.20	0.02
Benzo(a)pyrene	ND		ug/l	0.20	0.04
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04
Chrysene	ND		ug/l	0.20	0.04
Acenaphthylene	ND		ug/l	0.20	0.04
Anthracene	ND		ug/l	0.20	0.04
Benzo(ghi)perylene	ND		ug/l	0.20	0.04
Fluorene	ND		ug/l	0.20	0.04
Phenanthrene	ND		ug/l	0.20	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04
Pyrene	ND		ug/l	0.20	0.04
2-Methylnaphthalene	ND		ug/l	0.20	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 01/05/16 09:31
 Analyst: KV

Extraction Method: EPA 3510C
 Extraction Date: 01/05/16 03:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG854737-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	105		10-120
4-Terphenyl-d14	90		41-149

Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 01/05/16 11:24
 Analyst: RC

Extraction Method: EPA 3510C
 Extraction Date: 01/05/16 03:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG854744-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Isophorone	ND		ug/l	5.0	0.60
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	1.3	J	ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63
Dimethyl phthalate	ND		ug/l	5.0	0.65
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.1
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62

Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 01/05/16 11:24
 Analyst: RC

Extraction Method: EPA 3510C
 Extraction Date: 01/05/16 03:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG854744-1					
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Carbazole	ND		ug/l	2.0	0.63
Benzaldehyde	ND		ug/l	5.0	1.1
Caprolactam	ND		ug/l	10	3.6
Atrazine	ND		ug/l	10	1.8
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	113		10-120
4-Terphenyl-d14	104		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1600082

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG854737-2 WG854737-3								
Acenaphthene	93		87		37-111	7		40
2-Chloronaphthalene	93		86		40-140	8		40
Fluoranthene	105		94		40-140	11		40
Hexachlorobutadiene	78		77		40-140	1		40
Naphthalene	87		83		40-140	5		40
Benzo(a)anthracene	110		97		40-140	13		40
Benzo(a)pyrene	109		96		40-140	13		40
Benzo(b)fluoranthene	105		94		40-140	11		40
Benzo(k)fluoranthene	99		89		40-140	11		40
Chrysene	107		99		40-140	8		40
Acenaphthylene	105		97		40-140	8		40
Anthracene	102		92		40-140	10		40
Benzo(ghi)perylene	98		90		40-140	9		40
Fluorene	102		92		40-140	10		40
Phenanthrene	101		91		40-140	10		40
Dibenzo(a,h)anthracene	102		92		40-140	10		40
Indeno(1,2,3-cd)Pyrene	104		92		40-140	12		40
Pyrene	104		91		26-127	13		40
2-Methylnaphthalene	88		85		40-140	3		40
Pentachlorophenol	120	Q	108	Q	9-103	11		40
Hexachlorobenzene	97		87		40-140	11		40

Lab Control Sample Analysis Batch Quality Control

Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG854737-2 WG854737-3								
Hexachloroethane	88		88		40-140	0		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		54		21-120
Phenol-d6	43		41		10-120
Nitrobenzene-d5	97		89		23-120
2-Fluorobiphenyl	103		84		15-120
2,4,6-Tribromophenol	117		106		10-120
4-Terphenyl-d14	99		88		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1600082

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG854744-2 WG854744-3								
1,2,4-Trichlorobenzene	75		74		39-98	1		30
Bis(2-chloroethyl)ether	79		76		40-140	4		30
1,2-Dichlorobenzene	66		61		40-140	8		30
1,3-Dichlorobenzene	64		56		40-140	13		30
1,4-Dichlorobenzene	66		57		36-97	15		30
3,3'-Dichlorobenzidine	64		57		40-140	12		30
2,4-Dinitrotoluene	97	Q	100	Q	24-96	3		30
2,6-Dinitrotoluene	92		97		40-140	5		30
4-Chlorophenyl phenyl ether	93		95		40-140	2		30
4-Bromophenyl phenyl ether	96		103		40-140	7		30
Bis(2-chloroisopropyl)ether	86		82		40-140	5		30
Bis(2-chloroethoxy)methane	81		83		40-140	2		30
Hexachlorocyclopentadiene	87		93		40-140	7		30
Isophorone	84		85		40-140	1		30
Nitrobenzene	91		89		40-140	2		30
NitrosoDiPhenylAmine(NDPA)/DPA	91		94		40-140	3		30
n-Nitrosodi-n-propylamine	87		85		29-132	2		30
Bis(2-Ethylhexyl)phthalate	102		101		40-140	1		30
Butyl benzyl phthalate	101		102		40-140	1		30
Di-n-butylphthalate	99		103		40-140	4		30
Di-n-octylphthalate	107		102		40-140	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1600082

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG854744-2 WG854744-3								
Diethyl phthalate	99		102		40-140	3		30
Dimethyl phthalate	90		97		40-140	7		30
Biphenyl	90		90		54-104	0		30
4-Chloroaniline	82		70		40-140	16		30
2-Nitroaniline	95		100		52-143	5		30
3-Nitroaniline	68		66		25-145	3		30
4-Nitroaniline	94		94		51-143	0		30
Dibenzofuran	86		90		40-140	5		30
1,2,4,5-Tetrachlorobenzene	85		90		2-134	6		30
Acetophenone	88		89		39-129	1		30
2,4,6-Trichlorophenol	96		98		30-130	2		30
P-Chloro-M-Cresol	89		92		23-97	3		30
2-Chlorophenol	79		78		27-123	1		30
2,4-Dichlorophenol	93		95		30-130	2		30
2,4-Dimethylphenol	93		97		30-130	4		30
2-Nitrophenol	86		90		30-130	5		30
4-Nitrophenol	51		51		10-80	0		30
2,4-Dinitrophenol	85		62		20-130	31	Q	30
4,6-Dinitro-o-cresol	90		87		20-164	3		30
Phenol	39		39		12-110	0		30
2-Methylphenol	72		72		30-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1600082

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG854744-2 WG854744-3								
3-Methylphenol/4-Methylphenol	70		71		30-130	1		30
2,4,5-Trichlorophenol	96		101		30-130	5		30
Benzoic Acid	38		14		10-110	92	Q	30
Benzyl Alcohol	75		73		15-110	3		30
Carbazole	91		96		55-144	5		30
Benzaldehyde	87		80		40-140	8		30
Caprolactam	29		28		10-130	4		30
Atrazine	128		137		40-140	7		30
2,3,4,6-Tetrachlorophenol	94		100		54-145	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		53		21-120
Phenol-d6	38		36		10-120
Nitrobenzene-d5	84		85		23-120
2-Fluorobiphenyl	76		79		15-120
2,4,6-Tribromophenol	102		102		10-120
4-Terphenyl-d14	93		94		41-149

PCBS

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1600082
Report Date: 01/05/16

SAMPLE RESULTS

Lab ID: L1600082-01
Client ID: 2016-0104-WATER
Sample Location: BATH, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 01/05/16 10:12
Analyst: JT

Date Collected: 01/04/16 15:00
Date Received: 01/04/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 01/05/16 05:19
Cleanup Method: EPA 3665A
Cleanup Date: 01/05/16
Cleanup Method: EPA 3660B
Cleanup Date: 01/05/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	ND		ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	38		30-150	B

Project Name: PHILIPS BATH IRMS**Lab Number:** L1600082**Project Number:** 34201-313**Report Date:** 01/05/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 01/05/16 09:26
 Analyst: JT

Extraction Method: EPA 3510C
 Extraction Date: 01/05/16 05:19
 Cleanup Method: EPA 3665A
 Cleanup Date: 01/05/16
 Cleanup Method: EPA 3660B
 Cleanup Date: 01/05/16

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG854766-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A
PCBs, Total	ND		ug/l	0.083	0.029	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1600082

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG854766-2 WG854766-3									
Aroclor 1016	95		88		40-140	8		50	A
Aroclor 1260	97		88		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		62		30-150	A
Decachlorobiphenyl	69		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		59		30-150	B
Decachlorobiphenyl	57		54		30-150	B

METALS

Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

SAMPLE RESULTS

Lab ID: L1600082-01

Date Collected: 01/04/16 15:00

Client ID: 2016-0104-WATER

Date Received: 01/04/16

Sample Location: BATH, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	0.00488		mg/l	0.00050	0.00012	1	01/05/16 02:30	01/05/16 14:40	EPA 3005A	1,6020A	SE
Barium, Total	0.08715		mg/l	0.00050	0.00006	1	01/05/16 02:30	01/05/16 14:40	EPA 3005A	1,6020A	SE
Beryllium, Total	0.00048	J	mg/l	0.00050	0.00015	1	01/05/16 02:30	01/05/16 14:40	EPA 3005A	1,6020A	SE
Cadmium, Total	0.00030		mg/l	0.00020	0.00005	1	01/05/16 02:30	01/05/16 14:40	EPA 3005A	1,6020A	SE
Chromium, Total	0.01793		mg/l	0.00100	0.00025	1	01/05/16 02:30	01/05/16 14:40	EPA 3005A	1,6020A	SE
Copper, Total	0.03886		mg/l	0.00100	0.00026	1	01/05/16 02:30	01/05/16 14:40	EPA 3005A	1,6020A	SE
Lead, Total	0.02476		mg/l	0.00100	0.00012	1	01/05/16 02:30	01/05/16 14:40	EPA 3005A	1,6020A	SE
Manganese, Total	0.9061		mg/l	0.01000	0.00302	10	01/05/16 02:30	01/05/16 15:35	EPA 3005A	1,6020A	SE
Mercury, Total	0.00016	J	mg/l	0.00020	0.00006	1	01/05/16 08:50	01/05/16 12:03	EPA 7470A	1,7470A	DB
Nickel, Total	0.03478		mg/l	0.00200	0.00008	1	01/05/16 02:30	01/05/16 14:40	EPA 3005A	1,6020A	SE
Selenium, Total	ND		mg/l	0.00500	0.00100	1	01/05/16 02:30	01/05/16 14:40	EPA 3005A	1,6020A	SE
Silver, Total	ND		mg/l	0.00040	0.00007	1	01/05/16 02:30	01/05/16 14:40	EPA 3005A	1,6020A	SE
Zinc, Total	0.4168		mg/l	0.1000	0.02560	10	01/05/16 02:30	01/05/16 15:35	EPA 3005A	1,6020A	SE



Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG854756-1										
Arsenic, Total	ND		mg/l	0.00050	0.00012	1	01/05/16 02:30	01/05/16 14:29	1,6020A	SE
Barium, Total	ND		mg/l	0.00050	0.00006	1	01/05/16 02:30	01/05/16 14:29	1,6020A	SE
Beryllium, Total	ND		mg/l	0.00050	0.00015	1	01/05/16 02:30	01/05/16 14:29	1,6020A	SE
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	01/05/16 02:30	01/05/16 14:29	1,6020A	SE
Chromium, Total	0.00044	J	mg/l	0.00100	0.00025	1	01/05/16 02:30	01/05/16 14:29	1,6020A	SE
Copper, Total	ND		mg/l	0.00100	0.00026	1	01/05/16 02:30	01/05/16 14:29	1,6020A	SE
Lead, Total	ND		mg/l	0.00100	0.00012	1	01/05/16 02:30	01/05/16 14:29	1,6020A	SE
Manganese, Total	ND		mg/l	0.00100	0.00030	1	01/05/16 02:30	01/05/16 14:29	1,6020A	SE
Nickel, Total	0.00191	J	mg/l	0.00200	0.00008	1	01/05/16 02:30	01/05/16 14:29	1,6020A	SE
Selenium, Total	ND		mg/l	0.00500	0.00100	1	01/05/16 02:30	01/05/16 14:29	1,6020A	SE
Silver, Total	ND		mg/l	0.00040	0.00007	1	01/05/16 02:30	01/05/16 14:29	1,6020A	SE
Zinc, Total	ND		mg/l	0.01000	0.00256	1	01/05/16 02:30	01/05/16 14:29	1,6020A	SE

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG854802-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/05/16 08:50	01/05/16 12:00	1,7470A	DB

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1600082

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG854756-2								
Arsenic, Total	103		-		80-120	-		
Barium, Total	96		-		80-120	-		
Beryllium, Total	100		-		80-120	-		
Cadmium, Total	97		-		80-120	-		
Chromium, Total	97		-		80-120	-		
Copper, Total	112		-		80-120	-		
Lead, Total	99		-		80-120	-		
Manganese, Total	101		-		80-120	-		
Nickel, Total	104		-		80-120	-		
Selenium, Total	112		-		80-120	-		
Silver, Total	97		-		80-120	-		
Zinc, Total	108		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG854802-2								
Mercury, Total	112		-		80-120	-		

Matrix Spike Analysis **Batch Quality Control**

Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG854756-4 QC Sample: L1600082-01 Client ID: 2016-0104-WATER												
Arsenic, Total	0.00488	0.12	0.1217	97		-	-		75-125	-		20
Barium, Total	0.08715	2	2.111	101		-	-		75-125	-		20
Beryllium, Total	0.00048J	0.05	0.05195	104		-	-		75-125	-		20
Cadmium, Total	0.00030	0.051	0.05613	109		-	-		75-125	-		20
Chromium, Total	0.01793	0.2	0.2075	95		-	-		75-125	-		20
Copper, Total	0.03886	0.25	0.2862	99		-	-		75-125	-		20
Lead, Total	0.02476	0.51	0.5518	103		-	-		75-125	-		20
Manganese, Total	0.9061	0.5	1.313	81		-	-		75-125	-		20
Nickel, Total	0.03478	0.5	0.5637	106		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.123	102		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05001	100		-	-		75-125	-		20
Zinc, Total	0.4168	0.5	0.8845	94		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG854802-4 QC Sample: L1600082-01 Client ID: 2016-0104-WATER												
Mercury, Total	0.00016J	0.005	0.00497	100		-	-		75-125	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1600082

Report Date: 01/05/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG854756-3 QC Sample: L1600082-01 Client ID: 2016-0104-WATER						
Arsenic, Total	0.00488	0.00275	mg/l	56	Q	20
Barium, Total	0.08715	0.07708	mg/l	12		20
Beryllium, Total	0.00048J	0.00027J	mg/l	NC		20
Cadmium, Total	0.00030	0.00029	mg/l	5		20
Chromium, Total	0.01793	0.00867	mg/l	70	Q	20
Copper, Total	0.03886	0.02688	mg/l	36	Q	20
Lead, Total	0.02476	0.01881	mg/l	27	Q	20
Nickel, Total	0.03478	0.02351	mg/l	39	Q	20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG854756-3 QC Sample: L1600082-01 Client ID: 2016-0104-WATER						
Manganese, Total	0.9061	0.8198	mg/l	10		20
Zinc, Total	0.4168	0.3307	mg/l	23	Q	20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG854802-3 QC Sample: L1600082-01 Client ID: 2016-0104-WATER						
Mercury, Total	0.00016J	0.00020	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1600082
Report Date: 01/05/16

SAMPLE RESULTS

Lab ID: L1600082-01
Client ID: 2016-0104-WATER
Sample Location: BATH, NY
Matrix: Water

Date Collected: 01/04/16 15:00
Date Received: 01/04/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	0.018		mg/l	0.010	0.010	1	-	01/05/16 14:40	107,-	
Cyanide, Total	0.004	J	mg/l	0.005	0.001	1	01/05/16 09:19	01/05/16 12:56	1,9010C/9012B	JO
pH (H)	7.6		SU	-	NA	1	-	01/05/16 02:45	1,9040C	LH
Flash Point	>150		deg F	70	NA	1	-	01/04/16 21:32	1,1010A	SB
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/05/16 01:46	01/05/16 02:09	1,7196A	LH
Cyanide, Reactive	ND		mg/l	1.0	1.0	1	01/05/16 01:10	01/05/16 02:01	1,7.3	TL
Sulfide, Reactive	ND		mg/l	1.0	1.0	1	01/05/16 01:10	01/05/16 01:57	1,7.3	TL



Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG854741-1										
Cyanide, Reactive	ND		mg/l	1.0	1.0	1	01/05/16 01:10	01/05/16 02:00	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG854742-1										
Sulfide, Reactive	ND		mg/l	1.0	1.0	1	01/05/16 01:10	01/05/16 01:55	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG854743-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/05/16 01:46	01/05/16 02:09	1,7196A	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG854807-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/05/16 09:19	01/05/16 12:53	1,9010C/9012B	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Project Number: 34201-313

Lab Number: L1600082

Report Date: 01/05/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG854741-2								
Cyanide, Reactive	43		-		30-125	-		25
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG854742-2								
Sulfide, Reactive	74		-		60-125	-		25
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG854743-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG854749-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG854753-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG854807-2 WG854807-3								
Cyanide, Total	105		106		85-115	1		20

Matrix Spike Analysis

Batch Quality Control

Project Name: PHILIPS BATH IRMS

Lab Number: L1600082

Project Number: 34201-313

Report Date: 01/05/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG854743-4 QC Sample: L1600082-01 Client ID: 2016-0104-WATER												
Chromium, Hexavalent	ND	0.1	0.101	101		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG854807-4 WG854807-5 QC Sample: L1600082-01 Client ID: 2016-0104-WATER												
Cyanide, Total	0.004J	0.2	0.190	95		0.206	103		80-120	8		20

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1600082
Report Date: 01/05/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG854741-3 QC Sample: L1534518-08 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/l	NC		25
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG854742-3 QC Sample: L1534518-08 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/l	NC		25
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG854743-3 QC Sample: L1600082-01 Client ID: 2016-0104-WATER						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG854753-2 QC Sample: L1600075-02 Client ID: DUP Sample						
pH	7.0	7.0	SU	0		5

Project Name: PHILIPS BATH IRMS**Project Number:** 34201-313**Lab Number:** L1600082**Report Date:** 01/05/16**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1600082-01A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1600082-01B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1600082-01C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1600082-01D	Plastic 250ml HNO3 preserved	A	<2	4.1	Y	Absent	BA-6020T(180),SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L1600082-01D1	Plastic 250ml NaOH preserved	A	>12	4.1	Y	Absent	TCN-9010(14)
L1600082-01G	Amber 500ml unpreserved	A	7	4.1	Y	Absent	HOLD-8081(7)
L1600082-01H	Amber 500ml unpreserved	A	7	4.1	Y	Absent	REACTS(7),HEXCR-7196(1),REACTCN(7),FLASH(),P H-9040(1)
L1600082-01I	Amber 1000ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1600082-01K	Amber 1000ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8082-1200ML(7)
L1600082-01L	Amber 1000ml unpreserved	A	7	4.1	Y	Absent	NYTCL-8082-1200ML(7)

*Values in parentheses indicate holding time in days

Project Name: PHILIPS BATH IRMS
Project Number: 34201-313

Lab Number: L1600082
Report Date: 01/05/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: PHILIPS BATH IRMS
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Lab Number: L1600082
Report Date: 01/05/16

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C,**
SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,
SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**
SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,
Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

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

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APPENDIX I

Waste Disposal Documentation – Decontamination Water

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NA		Manifest Document No. 11724	2. Page 1 of 1
3. Generator's Name and Mailing Address Phillips Lighting 7265 Route 54, Bath, New York 14810					
4. Generator's Phone (585 783-2615					
5. Transporter 1 Company Name 2D-Tech Environmental Svcs, Inc.		6. US EPA ID Number NY D 9 8 6 9 8 0 7 3 3		A. State Transporter's ID 7A-787	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 800-225-6750	
9. Designated Facility Name and Site Address American Ref Fuel of Niagara <i>Covanta of Niagara (PR)</i> 100 Energy Blvd @ 56 th Street Niagara Falls, NY 14304		US EPA ID Number NY D 9 8 6 9 3 0 5 4 3		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 716-278-2512	
11. WASTE DESCRIPTION				Containers	
				No.	Type
				13. Total Quantity	
				14. Unit Wt./Vol.	
a. NON RCRA, NON DOT Regulated Liquids, NOS (VOC Impacted Water)				6	DM
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above 1. 3	
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-225-6750. This material has been verified as approval #7603 NYSDEC # 08-010. PO # 101214 - Frankie Thomas, PM Facility # 11724					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
(As Agent for Phillips Lighting)					
Printed/Typed Name DAVID M. NOSTROM				Signature <i>[Signature]</i>	
				Date Month Day Year 1 21 11	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Kurt Lawrence				Signature <i>[Signature]</i>	
				Date Month Day Year 1 21 11	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Signature	
				Date Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name Kathy Steele				Signature <i>[Signature]</i>	
				Date Month Day Year 2 14 11	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY