



589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495

www.kas-consulting.com

802.383.0486 p

802.383.0490 f

October 8, 2020

Mr. Max Madalinski
Associate Parks Project Coordinator
Burlington Parks, Recreation & Waterfront
645 Pine Street Suite B
Burlington, VT 05401

Re: Sub-Slab Soils Assessment – 60 Institute Road, Burlington, VT

Dear Mr. Madalinski:

The following is a summary of the sub slab soils assessment conducted by KAS, Inc. (KAS) on September 3, 2020 under the North Beach Maintenance Garage at 60 Institute Road in Burlington, Vermont ("property").

1.0 Background

The 60 Institute Road property has historically contained a maintenance building used by the Burlington Parks, Recreation & Waterfront (BPRW) and is under consideration for redevelopment. Before the commencement of Site work, KAS reviewed the Siting Study and Conceptual Master Plan prepared for the property in August 2017 by VHB to gain a thorough understanding of the potential environmental concerns for the property based on its historical use.

The goal of this assessment was to determine if contaminants of concern were present beneath the slab of the building to evaluate potential property reuse and redevelopment. The contaminants of concern at the property consisted of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs) and heavy metals.

2.0 Sub-Slab Soils Assessment

2.1 Pre-Drilling Activities

Prior to initiation of the subsurface activities at the Site, a Site Health and Safety Plan (HASp) was prepared in accordance with Vermont Occupational Safety and Health Administration (VOSH) requirements. As work was performed inside a building, Vermont Dig Safe was not required. KAS coordinated with BPRW to gain access to the building to conduct the work scope. BPRW informed KAS that no underground utilities existed beneath the slab.

2.2 Sub-Slab Soil Boring Advancement

On September 3, 2020 KAS advanced three sub-slab soil borings (SB-1, SB-2, SB-3) by hand utilizing a core drill and hand auger through the garage building slab. The borings were advanced at a spatial gradient across the length of the



building slab to a depth of approximately 2 feet below ground surface (bgs). The locations of the borings were selected to define the degree and extent of potential soil impacts; SB-1 was advanced in the second garage bay, SB-2 in the fourth, and SB-3 was drilled near a floor drain in the 5th bay (see photos, Appendix B). The soil borings were advanced by a KAS senior scientist. The core drill and hand auger were decontaminated between each borehole using a water/Alconox solution. Each soil boring was back filled with the soil removed upon completion.

2.3 Sub-Slab Soil Sampling and Laboratory Analysis

Two soil samples were screened at each boring location; one sample each from 0.0–1.0 feet and 1.0–2.0 feet bgs. Samples were obtained with a hand auger and screened with a properly calibrated photoionization detector (PID) for VOCs, using a MiniRae model PID equipped with a 10.6 eV bulb. Prior to screening, the PID was calibrated with isobutylene with reference made to benzene. Soils were screened in accordance with *KAS Protocol #001 Soil Screening Headspace Measurement*.

PID screening values ranged from 0.0–0.1 parts per million by volume (ppmv). No petroleum or non-petroleum odors were noted in the soil samples collected. A total of three samples were submitted for laboratory analysis. One sample was collected from soil boring SB-1 at the 0.0–1.0 foot bgs interval where a PID reading of 0.0 ppmv was recorded. A second sample was collected from 0.0–1.0 feet bgs in SB-3 where a PID reading of 0.1 ppmv was recorded. The last sample was from 1.0–2.0 feet bgs in SB-3 with a PID reading recorded at 0.0 ppmv.

The three samples were analyzed by Con-Test Laboratory of East Longmeadow, MA for the following: VOCs via method 8260C-D, SVOCs via method 8270D-E, PCBs via method 8082A, and total metals via method 6010D. Arsenic, barium, chromium, and lead were detected in all three samples at levels below Vermont Soil Standards (VSS). All other metals were reported non detect. No VOCs, SVOCs, or PCBs were detected. All of the detection limits were below regulatory standards.

3.0 Conclusions

In conclusion, KAS advanced three sub-slab soil borings (SB-1, SB-2, SB-3) to approximately 2.0 feet bgs utilizing a core drill and hand auger, beneath the garage building on September 3, 2020. No odors, petroleum or otherwise, were noted in the soil samples collected and PID screening values ranged from 0.0–0.1 ppmv. Three confirmatory soil samples were collected for laboratory analysis of VOCs, SVOCs, PCBs, and heavy metals. Arsenic, barium, chromium, and lead were detected in all three samples at levels below VSS. No VOCs, SVOCs, or PCBs were detected above laboratory detection limits.



Mr. Max Madalinski
October 8, 2020
Page 3

4.0 Recommendations

Based on the absence of contaminants of concern above soil standards in sub slab soils, KAS recommends no further environmental assessment work on the property grounds.

If you have any questions regarding this report, please call me at 802-383-0486 or email me at JeremyR@kas-consulting.com.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Roberts", written over a light blue horizontal line.

Jeremy Roberts, P.G.
Vice-President / Environmental Program Manager

Encl.: Attachment A – Site Map
Attachment B – Photo Documentation
Attachment C – Soil Data Summary
Attachment D – Laboratory Analytical Report

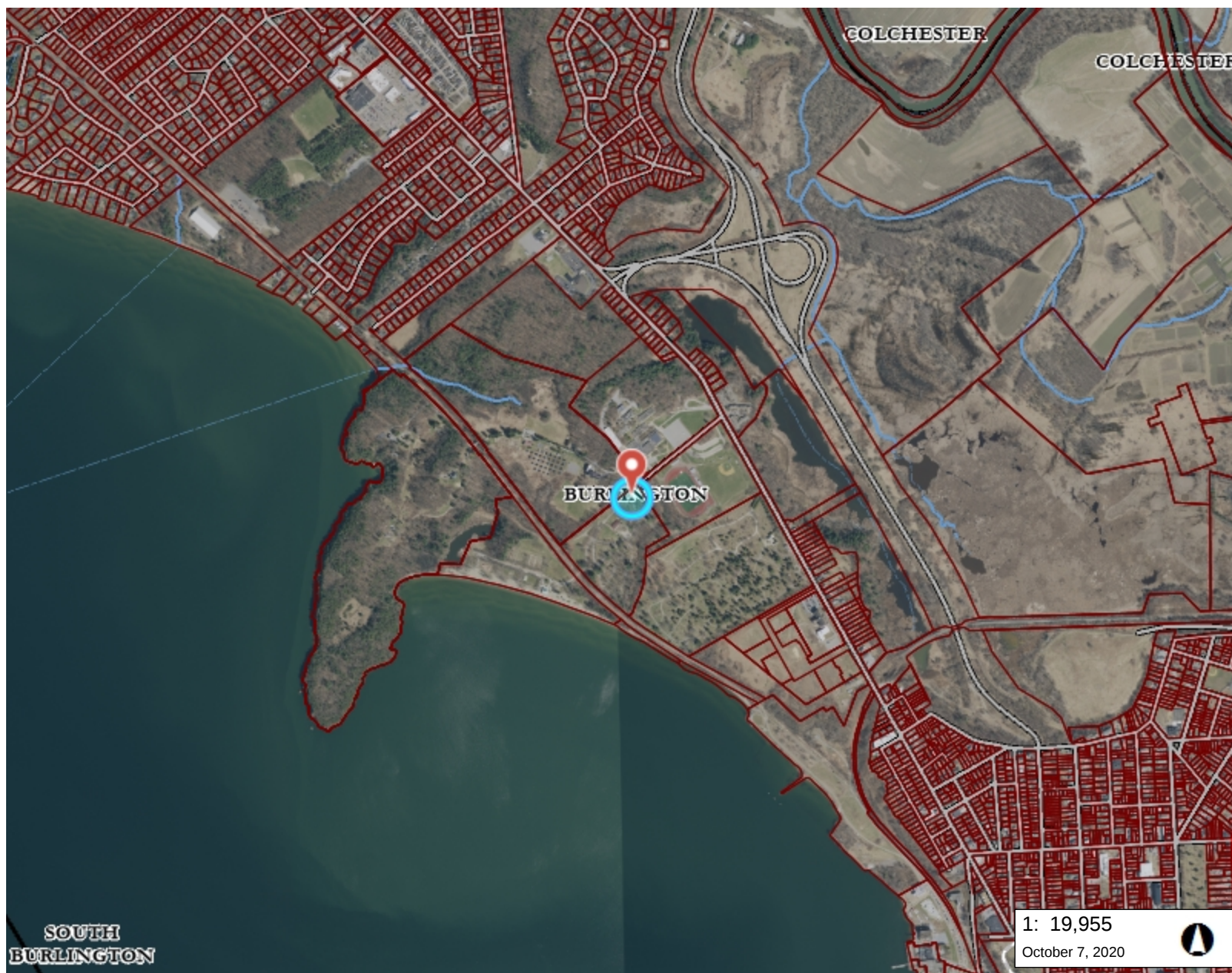
Cc: KAS #508200579



Mr. Max Madalinski
October 8, 2020
Page 4

ATTACHMENT A

SITE LOCATION MAP



LEGEND

- Parcels (standardized)
- Roads**
 - Interstate
 - US Highway; 1
 - State Highway
 - Town Highway (Class 1)
 - Town Highway (Class 2,3)
 - Town Highway (Class 4)
 - State Forest Trail
 - National Forest Trail
 - Legal Trail
 - Private Road/Driveway
 - Proposed Roads
- Stream/River**
 - Stream
 - Intermittent Stream
 - Other
- Town Boundary

NOTES

60 Institute Road
South Burlington, VT

1,014.0 0 507.00 1,014.0 Meters
WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 1663 Ft. 1cm = 200 Meters
© Vermont Agency of Natural Resources THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.



Mr. Max Madalinski
October 8, 2020
Page 5

ATTACHMENT B

PHOTO DOCUMENTATION



Photographic Documentation
Sub Slab Soil Sampling
BPRW North Beach Maintenance Garage
60 Institute Road, Burlington, VT
KAS #508200579

Photograph ID: 001

Date: 9/3/2020

Location: Second garage bay

Direction: Bird's eye view

Comments:

SB-1 augered 2.0 feet bgs
beneath the garage slab



Photograph ID: 002

Date: 9/3/2020

Location: Second garage bay

Direction: Bird's eye view

Comments:

Another view of SB-1 augered
2.0 feet bgs beneath the garage
slab





Photographic Documentation
Sub Slab Soil Sampling
BPRW North Beach Maintenance Garage
60 Institute Road, Burlington, VT
KAS #508200579

Photograph ID: 003

Date: 9/3/2020

Location: Fourth garage bay

Direction: Bird's eye view

Comments:

SB-2 augered 2.0 feet bgs
beneath the garage slab



Photograph ID: 004

Date: 9/3/2020

Location: Fourth garage bay

Direction: Bird's eye view

Comments:

Another view of SB-2 augered
2.0 feet bgs beneath the garage
slab





Photographic Documentation
Sub Slab Soil Sampling
BPRW North Beach Maintenance Garage
60 Institute Road, Burlington, VT
KAS #508200579

Photograph ID: 005

Date: 9/3/2020

Location: Fifth garage bay

Direction: Bird's eye view

Comments:

SB-3 augered 2.0 feet bgs
beneath the garage slab.
Notice proximity of the boring
to the floor drain.



Photograph ID: 006

Date: 9/3/2020

Location: Fifth garage bay

Direction: Bird's eye view

Comments:

Another view of SB-3 augered
2.0 feet bgs beneath the garage
slab





Mr. Max Madalinski
October 8, 2020
Page 6

ATTACHMENT C

SOIL DATA SUMMARY

Summary of Soil Analytical Data
North Beach Maintenance Barn
Burlington, Vermont

Soil Boring ID (depth in feet):	SB-1 (0-1')	SB-3 (0-1')	SB-3 (1-2')	VSS - Resident Soil	EPA RSL - Resident Soil
Sample Date:	09/03/20	09/03/20	09/03/20		
VOCs (mg/kg)					
Acetone	<0.077	<0.071	<0.068	40,609	61,000
Acrylonitrile	<0.0046	<0.0043	<0.0041	-	-
tert-Amyl Methyl Ether (TAME)	<0.00077	<0.00071	<0.00068	-	-
Benzene	<0.0015	<0.0014	<0.0014	0.7	1.2
Bromobenzene	<0.0015	<0.0014	<0.0014	-	290
Bromochloromethane	<0.0015	<0.0014	<0.0014	193	150
Bromodichloromethane	<0.0015	<0.0014	<0.0014	-	0.29
Bromoform	<0.0015	<0.0014	<0.0014	-	19
Bromomethane	<0.0077	<0.0071	<0.0068	-	6.8
2-Butanone (MEK)	<0.031	<0.029	<0.027	16,952	27,000
tert-Butyl Alcohol (TBA)	<0.031	<0.029	<0.027	-	-
n-Butylbenzene	<0.0015	<0.0014	<0.0014	3,504	3,900
sec-Butylbenzene	<0.0015	<0.0014	<0.0014	7,009	7,800
tert-Butylbenzene	<0.0015	<0.0014	<0.0014	7,009	7,800
tert-Butyl Ethyl Ether (TBEE)	<0.00077	<0.00071	<0.00068	-	-
Carbon Disulfide	<0.0046	<0.0043	<0.0041	608	770
Carbon Tetrachloride	<0.0015	<0.0014	<0.0014	0.37	0.65
Chlorobenzene	<0.0015	<0.0014	<0.0014	414	280
Chlorodibromomethane	<0.00077	<0.00071	<0.00068	-	-
Chloroethane	<0.015	<0.014	<0.014	-	14,000
Chloroform	<0.0031	<0.0029	<0.0027	-	0.32
Chloromethane	<0.0077	<0.0071	<0.0068	-	110
2-Chlorotoluene	<0.0015	<0.0014	<0.0014	-	1600
4-Chlorotoluene	<0.0015	<0.0014	<0.0014	-	1600
1,2-Dibromo-3-chloropropane (DBCP)	<0.0015	<0.0014	<0.0014	0.01	0.0053
1,2-Dibromoethane (EDB)	<0.00077	<0.00071	<0.00068	0.02	0.036
Dibromomethane	<0.0015	<0.0014	<0.0014	-	24
1,2-Dichlorobenzene	<0.0015	<0.0014	<0.0014	-	1800
1,3-Dichlorobenzene	<0.0015	<0.0014	<0.0014	-	-
1,4-Dichlorobenzene	<0.0015	<0.0014	<0.0014	-	2.6
trans-1,4-Dichloro-2-butene	<0.0031	<0.0029	<0.0027	-	-
Dichlorodifluoromethane (Freon 12)	<0.015	<0.014	<0.014	-	87
1,1-Dichloroethane	<0.0015	<0.0014	<0.0014	2.1	3.6
1,2-Dichloroethane	<0.0015	<0.0014	<0.0014	0.29	0.46
1,1-Dichloroethylene	<0.0031	<0.0029	<0.0027	-	230
cis-1,2-Dichloroethylene	<0.0015	<0.0014	<0.0014	140	160
trans-1,2-Dichloroethylene	<0.0015	<0.0014	<0.0014	1,402	1,600
1,2-Dichloropropane	<0.0015	<0.0014	<0.0014	1.5	2.5
1,3-Dichloropropane	<0.00077	<0.00071	<0.00068	-	1600
2,2-Dichloropropane	<0.0015	<0.0014	<0.0014	-	-
1,1-Dichloropropene	<0.0015	<0.0014	<0.0014	-	-
cis-1,3-Dichloropropene	<0.00077	<0.00071	<0.00068	-	1.8
trans-1,3-Dichloropropene	<0.00077	<0.00071	<0.00068	-	1.8
Diethyl Ether	<0.015	<0.014	<0.014	-	-
Diisopropyl Ether (DIPE)	<0.00077	<0.00071	<0.00068	-	-
1,4-Dioxane	<0.077	<0.071	<0.068	-	-
Ethylbenzene	<0.0015	<0.0014	<0.0014	3.7	5.8
Hexachlorobutadiene	<0.0015	<0.0014	<0.0014	-	1.2
2-Hexanone (MBK)	<0.015	<0.014	<0.014	-	200
Isopropylbenzene (Cumene)	<0.0015	<0.0014	<0.0014	256	1900
p-Isopropyltoluene (p-Cymene)	<0.0015	<0.0014	<0.0014	-	-
Methyl Acetate	<0.0015	<0.0014	<0.0014	-	-
Methyl tert-Butyl Ether (MTBE)	<0.0031	<0.0029	<0.0027	649	47
Methyl Cyclohexane	<0.0015	<0.0014	<0.0014	-	-
Methylene Chloride	<0.015	<0.014	<0.014	-	57
4-Methyl-2-pentanone (MIBK)	<0.015	<0.014	<0.014	-	33,000
Naphthalene	<0.0031	<0.0029	<0.0027	2.7	3.8
n-Propylbenzene	<0.0015	<0.0014	<0.0014	253	3800
Styrene	<0.0015	<0.0014	<0.0014	-	6000
1,1,1,2-Tetrachloroethane	<0.0015	<0.0014	<0.0014	1.3	2.0
1,1,2,2-Tetrachloroethane	<0.00077	<0.00071	<0.00068	-	0.60
Tetrachloroethylene	<0.0015	<0.0014	<0.0014	2.4	24
Tetrahydrofuran	<0.0077	<0.0071	<0.0068	-	18,000
Toluene	<0.0015	<0.0014	<0.0014	706	4900
1,2,3-Trichlorobenzene	<0.0015	<0.0014	<0.0014	-	63
1,2,4-Trichlorobenzene	<0.0015	<0.0014	<0.0014	-	24
1,3,5-Trichlorobenzene	<0.0015	<0.0014	<0.0014	-	-
1,1,1-Trichloroethane	<0.0015	<0.0014	<0.0014	-	8100
1,1,2-Trichloroethane	<0.0015	<0.0014	<0.0014	-	1.1
Trichloroethylene	<0.0015	<0.0014	<0.0014	0.68	0.94
Trichlorofluoromethane (Freon 11)	<0.0077	<0.0071	<0.0068	-	23,000
1,2,3-Trichloropropane	<0.0015	<0.0014	<0.0014	0.00311	0.0051
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	<0.0077	<0.0071	<0.0068	-	-
1,2,4-Trimethylbenzene	<0.0015	<0.0014	<0.0014	144	270
1,3,5-Trimethylbenzene	<0.0015	<0.0014	<0.0014	-	300
Vinyl Chloride	<0.0077	<0.0071	<0.0068	0.1	0.059
m+p Xylene	<0.0031	<0.0029	<0.0027	252	550
o-Xylene	<0.0015	<0.0014	<0.0014	-	650

NOTES:

All values reported in mg/kg, dry, unless otherwise indicated.

EPA RSL = Environmental Protection Agency Regional Screening Level (May 2020 EPA Regional Screening Level Summary Table)

VSS = Vermont Soil Standards (Investigation and Remediation of Contaminated Properties Rule (I-Rule), July 6, 2019)

<xx = Compound not detected above detection limit (xx)

Results reported above detection limits are indicated in bold

Detection limits and reported concentrations at or above the the applicable standards are shaded.

"-" indicates not analyzed or that a screening level is not provided in the I-Rule/EPA

** VT Urban Background Level



Summary of Soil Analytical Data
North Beach Maintenance Barn
Burlington, Vermont

Soil Boring ID (depth in feet):	SB-1 (0-1')	SB-3 (0-1')	SB-3 (1-2')	VSS - Resident Soil	EPA RSL - Resident Soil
Sample Date:	09/03/20	09/03/20	09/03/20		
SVOCs (mg/kg)					
Acenaphthene (SIM)	<0.018	<0.018	<0.0089	-	3,600
Acenaphthylene (SIM)	<0.018	<0.018	<0.0089	-	-
Acetophenone	<0.37	<0.37	<0.37	-	-
Aniline	<0.37	<0.37	<0.37	-	-
Anthracene (SIM)	<0.014	<0.014	<0.0071	-	18,000
Benzidine	<0.71	<0.72	<0.72	-	-
Benzo(a)anthracene (SIM)	<0.0036	<0.0036	<0.0018	-	1.1
Benzo(a)pyrene (SIM)	<0.0036	<0.0036	<0.0018	0.07	0.11
Benzo(b)fluoranthene (SIM)	<0.0036	<0.0036	<0.0018	-	1.1
Benzo(g,h,i)perylene (SIM)	<0.036	<0.036	<0.018	-	-
Benzo(k)fluoranthene (SIM)	<0.014	<0.014	<0.0071	-	11
Benzoic Acid	<1.1	<1.1	<1.1	-	-
Bis(2-chloroethoxy)methane	<0.37	<0.37	<0.37	-	-
Bis(2-chloroethyl)ether	<0.37	<0.37	<0.37	-	-
Bis(2-chloroisopropyl)ether	<0.37	<0.37	<0.37	-	-
Bis(2-Ethylhexyl)phthalate	<0.37	<0.37	<0.37	-	-
4-Bromophenylphenylether	<0.37	<0.37	<0.37	-	-
Butylbenzylphthalate	<0.37	<0.37	<0.37	-	-
Carbazole	<0.18	<0.18	<0.19	-	-
4-Chloroaniline	<0.71	<0.72	<0.72	-	-
4-Chloro-3-methylphenol	<0.71	<0.72	<0.72	-	-
2-Chloronaphthalene	<0.37	<0.37	<0.37	-	-
2-Chlorophenol	<0.37	<0.37	<0.37	-	-
4-Chlorophenylphenylether	<0.37	<0.37	<0.37	-	-
Chrysene (SIM)	<0.014	<0.014	<0.0071	-	110
Dibenz(a,h)anthracene (SIM)	<0.0036	<0.0036	<0.0018	-	0.11
Dibenzofuran	<0.37	<0.37	<0.37	-	-
Di-n-butylphthalate	<0.37	<0.37	<0.37	-	-
1,2-Dichlorobenzene	<0.37	<0.37	<0.37	-	-
1,3-Dichlorobenzene	<0.37	<0.37	<0.37	-	-
1,4-Dichlorobenzene	<0.37	<0.37	<0.37	-	-
3,3-Dichlorobenzidine	<0.18	<0.18	<0.19	-	-
2,4-Dichlorophenol	<0.37	<0.37	<0.37	-	-
Diethylphthalate	<0.37	<0.37	<0.37	-	-
2,4-Dimethylphenol	<0.37	<0.37	<0.37	-	-
Dimethylphthalate	<0.37	<0.37	<0.37	-	-
4,6-Dinitro-2-methylphenol	<0.37	<0.37	<0.37	-	-
2,4-Dinitrophenol	<0.71	<0.72	<0.72	-	-
2,4-Dinitrotoluene	<0.37	<0.37	<0.37	-	-
2,6-Dinitrotoluene	<0.37	<0.37	<0.37	-	-
Di-n-octylphthalate	<0.37	<0.37	<0.37	-	-
1,2-Diphenylhydrazine/Azobenzene	<0.37	<0.37	<0.37	-	-
Fluoranthene (SIM)	<0.036	<0.036	<0.018	2,301	2,400
Fluorene (SIM)	<0.071	<0.072	<0.036	2,301	2,400
Hexachlorobenzene	<0.37	<0.37	<0.37	-	-
Hexachlorobutadiene	<0.37	<0.37	<0.37	-	-
Hexachlorocyclopentadiene	<0.37	<0.37	<0.37	-	-
Hexachloroethane	<0.37	<0.37	<0.37	-	-
Indeno(1,2,3-cd)pyrene (SIM)	<0.014	<0.014	<0.0071	-	1.1
Isophorone	<0.37	<0.37	<0.37	-	-
1-Methylnaphthalene	<0.18	<0.18	<0.19	-	-
2-Methylnaphthalene (SIM)	<0.071	<0.072	<0.036	240	-
2-Methylphenol	<0.37	<0.37	<0.37	-	-
3/4-Methylphenol	<0.37	<0.37	<0.37	-	-
Naphthalene (SIM)	<0.071	<0.072	<0.036	2.7	3.8
2-Nitroaniline	<0.37	<0.37	<0.37	-	-
3-Nitroaniline	<0.37	<0.37	<0.37	-	-
4-Nitroaniline	<0.37	<0.37	<0.37	-	-
Nitrobenzene	<0.37	<0.37	<0.37	-	-
2-Nitrophenol	<0.37	<0.37	<0.37	-	-
4-Nitrophenol	<0.71	<0.72	<0.72	-	-
N-Nitrosodimethylamine	<0.37	<0.37	<0.37	-	-
N-Nitrosodiphenylamine/Diphenylamine	<0.37	<0.37	<0.37	-	-
N-Nitrosodi-n-propylamine	<0.37	<0.37	<0.37	-	-
Pentachloronitrobenzene	<0.37	<0.37	<0.37	-	-
Pentachlorophenol	<0.37	<0.37	<0.37	-	-
Phenanthrene (SIM)	<0.018	<0.018	<0.0089	-	-
Phenol	<0.37	<0.37	<0.37	-	-
Pyrene (SIM)	<0.071	<0.072	<0.036	-	1800
Pyridine	<0.37	<0.37	<0.37	-	-
1,2,4,5-Tetrachlorobenzene	<0.37	<0.37	<0.37	-	-
1,2,4-Trichlorobenzene	<0.37	<0.37	<0.37	-	-
2,4,5-Trichlorophenol	<0.37	<0.37	<0.37	-	-
2,4,6-Trichlorophenol	<0.37	<0.37	<0.37	-	-
TEQ as Benzo(a)pyrene*	ND	ND	ND	0.580**	

NOTES:

All values reported in mg/kg, dry, unless otherwise indicated.

EPA RSL = Environmental Protection Agency Regional Screening Level (May 2020 EPA Regional Screening Level Summary Table)

VSS = Vermont Soil Standards (Investigation and Remediation of Contaminated Properties Rule (I-Rule), July 6, 2019)

(SIM) = Sim analysis added to meet required reporting limits

<xx = Compound not detected above detection limit (xx)

Results reported above detection limits are indicated in bold

Detection limits and reported concentrations at or above the the applicable standards are shaded.

"-" indicates not analyzed or that a screening level is not provided in the I-Rule/EPA

* Sum of Toxicity Equivalent Quotients (TEQs) provided in laboratory report. Toxicity Equivalent Factors (TEFs) used by laboratory are consistent with those provided in I-Rule (July 6, 2019).

** VT Urban Background Level



Summary of Soil Analytical Data
North Beach Maintenance Barn
Burlington, Vermont

Soil Boring ID (depth in feet):	SB-1 (0-1')	SB-3 (0-1')	SB-3 (1-2')	VSS - Resident Soil	EPA RSL - Resident Soil
Sample Date:	09/03/20	09/03/20	09/03/20		
PCBs (mg/kg)					
Aroclor-1016	<0.080	<0.082	<0.082		
Aroclor-1221	<0.080	<0.082	<0.082		
Aroclor-1232	<0.080	<0.082	<0.082		
Aroclor-1242	<0.080	<0.082	<0.082		
Aroclor-1248	<0.080	<0.082	<0.082		
Aroclor-1254	<0.080	<0.082	<0.082		
Aroclor-1260	<0.080	<0.082	<0.082		
Aroclor-1262	<0.080	<0.082	<0.082		
Aroclor-1268	<0.080	<0.082	<0.082		
METALS (mg/kg)					
Total Arsenic	5.1	5.7	4.9	16	0.68
Total Barium	42	48	37	-	-
Total Cadmium	<0.36	<0.35	<0.36	6.9	71
Total Chromium	10	9.1	9	40,223	120,000
Total Lead	13	13	14	400	400
Total Mercury	<0.028	<0.028	<0.028	3.1	11
Total Selenium	<3.6	<3.5	<3.6	366	390
Total Silver	<0.36	<0.35	<0.36	237	390

NOTES:

All values reported in mg/kg, dry, unless otherwise indicated.

EPA RSL = Environmental Protection Agency Regional Screening Level (May 2020 EPA Regional Screening Level Summary Table)

VSS = Vermont Soil Standards (Investigation and Remediation of Contaminated Properties Rule (I-Rule), July 6, 2019)

<xx = Compound not detected above detection limit (xx)

Results reported above detection limits are indicated in bold

Detection limits and reported concentrations at or above the the applicable standards are shaded.

"-" indicates not analyzed or that a screening level is not provided in the I-Rule/EPA

** VT Urban Background Level



Mr. Max Madalinski
October 8, 2020
Page 7

ATTACHMENT D

LABORATORY ANALYTICAL REPORT

October 8, 2020

Jeremy Roberts
KAS Environmental
589 Avenue D
Williston, VT 05495

Project Location: Burlington, VT
Client Job Number:
Project Number: 508200579
Laboratory Work Order Number: 20I0285

Enclosed are results of analyses for samples received by the laboratory on September 4, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "R J McCarthy", is displayed on a light gray rectangular background.

Raymond J. McCarthy
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	8
20I0285-01	8
20I0285-02	18
20I0285-03	28
Sample Preparation Information	38
QC Data	40
Volatile Organic Compounds by GC/MS	40
B266046	40
Semivolatile Organic Compounds by GC/MS	45
B266378	45
B266943	49
B267971	54
Polychlorinated Biphenyls with 3540 Soxhlet Extraction	56
B266580	56
Metals Analyses (Total)	57
B266184	57
B266522	57
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	58
B266867	58
Dual Column RPD Report	59
Flag/Qualifier Summary	61
Certifications	62
Chain of Custody/Sample Receipt	68

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

KAS Environmental
589 Avenue D
Williston, VT 05495
ATTN: Jeremy Roberts

REPORT DATE: 10/8/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 508200579

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20I0285

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

PROJECT LOCATION: Burlington, VT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-1 0-1'	20I0285-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
SB-3 0-1'	20I0285-02	Soil		SW-846 8270D-E	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
SB-3 1-2'	20I0285-03	Soil		SW-846 8260C-D	
				SW-846 8270D-E	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	

CASE NARRATIVE SUMMARY

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

Revision: For method 8270, B(a)P-TE calculation error corrected.

REVISED 10/7/2020: 8270 PAH Sim added to meet required RLs, per client request.

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SW-846 8260C-D**Qualifications:****L-02**

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

Analyte & Samples(s) Qualified:**Methyl Acetate**

B266046-BS1, B266046-BSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**n-Butylbenzene**

20I0285-01[SB-1 0-1'], 20I0285-02[SB-3 0-1'], 20I0285-03[SB-3 1-2'], B266046-BLK1, B266046-BS1, B266046-BSD1, S052212-CCV1

V-20

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

Analyte & Samples(s) Qualified:**Methyl Acetate**

B266046-BS1, B266046-BSD1, S052212-CCV1

Tetrahydrofuran

B266046-BS1, B266046-BSD1, S052212-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

20I0285-01[SB-1 0-1'], 20I0285-02[SB-3 0-1'], 20I0285-03[SB-3 1-2'], B266046-BLK1, B266046-BS1, B266046-BSD1, S052212-CCV1

V-36

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

Analyte & Samples(s) Qualified:**Dichlorodifluoromethane (Freon 12)**

B266046-BS1, B266046-BSD1, S052212-CCV1

SW-846 8270D-E**Qualifications:****H-06**

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

20I0285-01RE1[SB-1 0-1'], 20I0285-02RE1[SB-3 0-1'], 20I0285-03RE1[SB-3 1-2']

H-10

Analysis was requested after the recommended holding time had passed.

Analyte & Samples(s) Qualified:

20I0285-01[SB-1 0-1'], 20I0285-02[SB-3 0-1'], 20I0285-03[SB-3 1-2']

L-04

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

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

20I0285-01RE1[SB-1 0-1'], 20I0285-02RE1[SB-3 0-1'], 20I0285-03RE1[SB-3 1-2'], B266943-BLK1, B266943-BS1, B266943-BSD1

L-07

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

Analyte & Samples(s) Qualified:**Benzoic Acid**

B266943-BSD1

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R-05

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

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

20I0285-01RE1[SB-1 0-1'], 20I0285-02RE1[SB-3 0-1'], 20I0285-03RE1[SB-3 1-2'], B266943-BLK1, B266943-BS1, B266943-BSD1

S-03

Surrogate recovery outside of control limits due to suspected sample matrix interference.

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

20I0285-01RE1[SB-1 0-1'], 20I0285-02RE1[SB-3 0-1']

S-07

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

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

20I0285-03RE1[SB-3 1-2']

S-19

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

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

20I0285-01[SB-1 0-1'], 20I0285-02[SB-3 0-1'], 20I0285-03[SB-3 1-2']

V-04

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

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

20I0285-01[SB-1 0-1'], 20I0285-01RE1[SB-1 0-1'], 20I0285-02[SB-3 0-1'], 20I0285-02RE1[SB-3 0-1'], 20I0285-03[SB-3 1-2'], 20I0285-03RE1[SB-3 1-2'], B266378-BLK1, B266378-BS1, B266378-BSD1, B266943-BLK1, B266943-BS1, B266943-BSD1, S052428-CCV1, S052570-CCV1, S052632-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

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

20I0285-01[SB-1 0-1'], 20I0285-01RE1[SB-1 0-1'], 20I0285-02[SB-3 0-1'], 20I0285-02RE1[SB-3 0-1'], 20I0285-03[SB-3 1-2'], 20I0285-03RE1[SB-3 1-2'], B266943-BLK1, B266943-BS1, B266943-BSD1, S052570-CCV1, S052632-CCV1

Benzidine

20I0285-01[SB-1 0-1'], 20I0285-01RE1[SB-1 0-1'], 20I0285-02[SB-3 0-1'], 20I0285-02RE1[SB-3 0-1'], 20I0285-03[SB-3 1-2'], 20I0285-03RE1[SB-3 1-2'], B266378-BLK1, B266378-BS1, B266378-BSD1, B266943-BLK1, B266943-BS1, B266943-BSD1, S052428-CCV1, S052570-CCV1, S052632-CCV1

Bis(2-chloroisopropyl)ether

20I0285-01RE1[SB-1 0-1'], 20I0285-02RE1[SB-3 0-1'], 20I0285-03RE1[SB-3 1-2'], B266943-BLK1, B266943-BS1, B266943-BSD1, S052632-CCV1

N-Nitrosodimethylamine

20I0285-01RE1[SB-1 0-1'], 20I0285-02RE1[SB-3 0-1'], 20I0285-03RE1[SB-3 1-2'], B266943-BLK1, B266943-BS1, B266943-BSD1, S052632-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**1,2-Diphenylhydrazine/Azobenzene**

B266378-BS1, B266378-BSD1, S052428-CCV1

2,4-Dinitrotoluene

B266378-BS1, B266378-BSD1, S052428-CCV1

2-Nitroaniline

20I0285-01[SB-1 0-1'], 20I0285-02[SB-3 0-1'], 20I0285-03[SB-3 1-2'], B266378-BS1, B266378-BSD1, S052428-CCV1, S052570-CCV1

4-Nitrophenol

B266378-BS1, B266378-BSD1, S052428-CCV1

Hexachlorobenzene

20I0285-01RE1[SB-1 0-1'], 20I0285-02RE1[SB-3 0-1'], 20I0285-03RE1[SB-3 1-2'], B266943-BLK1, B266943-BS1, B266943-BSD1, S052632-CCV1

Nitrobenzene

B266378-BS1, B266378-BSD1, S052428-CCV1

V-20

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

Analyte & Samples(s) Qualified:**1,2-Diphenylhydrazine/Azobenzene**

B266378-BLK1

2,4-Dinitrotoluene

B266378-BLK1

2-Nitroaniline

B266378-BLK1

4-Nitrophenol

B266378-BLK1

Nitrobenzene

B266378-BLK1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

20I0285-01[SB-1 0-1'], 20I0285-01RE1[SB-1 0-1'], 20I0285-02[SB-3 0-1'], 20I0285-02RE1[SB-3 0-1'], 20I0285-03[SB-3 1-2'], 20I0285-03RE1[SB-3 1-2'], B266378-BLK1, B266378-BS1, B266378-BSD1, B266943-BLK1, B266943-BS1, B266943-BSD1, S052428-CCV1, S052570-CCV1, S052632-CCV1

Aniline

20I0285-01[SB-1 0-1'], 20I0285-01RE1[SB-1 0-1'], 20I0285-02[SB-3 0-1'], 20I0285-02RE1[SB-3 0-1'], 20I0285-03[SB-3 1-2'], 20I0285-03RE1[SB-3 1-2'], B266378-BLK1, B266378-BS1, B266378-BSD1, B266943-BLK1, B266943-BS1, B266943-BSD1, S052428-CCV1, S052570-CCV1, S052632-CCV1

Benzidine

20I0285-01[SB-1 0-1'], 20I0285-01RE1[SB-1 0-1'], 20I0285-02[SB-3 0-1'], 20I0285-02RE1[SB-3 0-1'], 20I0285-03[SB-3 1-2'], 20I0285-03RE1[SB-3 1-2'], B266378-BLK1, B266378-BS1, B266378-BSD1, B266943-BLK1, B266943-BS1, B266943-BSD1, S052428-CCV1, S052570-CCV1, S052632-CCV1

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

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



Lisa A. Worthington
Technical Representative

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-1 0-1'

Sampled: 9/3/2020 10:18

Sample ID: 2010285-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Acrylonitrile	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Bromomethane	ND	0.0077	mg/Kg dry	1	V-34	SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
tert-Butyl Alcohol (TBA)	ND	0.031	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1	V-05	SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Carbon Disulfide	ND	0.0046	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Chlorodibromomethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Chloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Chloroform	ND	0.0031	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Chloromethane	ND	0.0077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,2-Dibromoethane (EDB)	ND	0.00077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
trans-1,4-Dichloro-2-butene	ND	0.0031	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,3-Dichloropropane	ND	0.00077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
cis-1,3-Dichloropropene	ND	0.00077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
trans-1,3-Dichloropropene	ND	0.00077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Diethyl Ether	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF

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Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-1 0-1'

Sampled: 9/3/2020 10:18

Sample ID: 2010285-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,4-Dioxane	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Methyl Acetate	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Methyl Cyclohexane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Methylene Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Naphthalene	ND	0.0031	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,1,2,2-Tetrachloroethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Tetrahydrofuran	ND	0.0077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,3,5-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Vinyl Chloride	ND	0.0077	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
m+p Xylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 8:44	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	108	70-130							
Toluene-d8	97.5	70-130							
4-Bromofluorobenzene	101	70-130							

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-1 0-1'

Sampled: 9/3/2020 10:18

Sample ID: 2010285-01

Sample Matrix: Soil

Sample Flags: H-06

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Acenaphthene (SIM)	ND	0.018	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Acenaphthylene (SIM)	ND	0.018	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Aniline	ND	0.36	mg/Kg dry	1	V-05, V-34	SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Aniline	ND	0.37	mg/Kg dry	1	V-05, V-34	SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Anthracene (SIM)	ND	0.014	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Benzidine	ND	0.69	mg/Kg dry	1	L-04, V-04, V-05, V-34	SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Benzidine	ND	0.71	mg/Kg dry	1	V-04, V-05, V-34	SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Benzo(a)anthracene (SIM)	ND	0.0036	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Benzo(a)pyrene (SIM)	ND	0.0036	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Benzo(b)fluoranthene (SIM)	ND	0.0036	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Benzo(g,h,i)perylene (SIM)	ND	0.036	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Benzo(k)fluoranthene (SIM)	ND	0.014	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Benzoic Acid	ND	1.0	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1	V-05	SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-1 0-1'

Sampled: 9/3/2020 10:18

Sample ID: 2010285-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
4-Chloroaniline	ND	0.69	mg/Kg dry	1	V-34	SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-34	SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
4-Chloro-3-methylphenol	ND	0.69	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
4-Chloro-3-methylphenol	ND	0.71	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
4-Chlorophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Chrysene (SIM)	ND	0.014	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Dibenz(a,h)anthracene (SIM)	ND	0.0036	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
4,6-Dinitro-2-methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
2,4-Dinitrophenol	ND	0.69	mg/Kg dry	1	R-05	SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-1 0-1'

Sampled: 9/3/2020 10:18

Sample ID: 2010285-01

Sample Matrix: Soil

Sample Flags: H-06

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Fluoranthene (SIM)	ND	0.036	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Fluorene (SIM)	ND	0.071	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Hexachlorobenzene	ND	0.36	mg/Kg dry	1	V-06	SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Hexachlorocyclopentadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Hexachlorocyclopentadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.014	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
1-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
1-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
2-Methylnaphthalene (SIM)	ND	0.071	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Naphthalene (SIM)	ND	0.071	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
2-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2-Nitroaniline	ND	0.37	mg/Kg dry	1	V-06	SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
3-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
4-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-1 0-1'

Sampled: 9/3/2020 10:18

Sample ID: 2010285-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
4-Nitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
N-Nitrosodimethylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
N-Nitrosodimethylamine	ND	0.36	mg/Kg dry	1	V-05	SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
N-Nitrosodi-n-propylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Pentachloronitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Phenanthrene (SIM)	ND	0.018	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
Pyrene (SIM)	ND	0.071	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
B(a)P-TE	0.0092		mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:11	IMR
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:13	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:15	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	50.1	30-130	9/22/20 10:13
2-Fluorophenol	57.3	30-130	9/19/20 18:15
Phenol-d6	82.3	30-130	9/19/20 18:15
Phenol-d6	73.7	30-130	9/22/20 10:13
Nitrobenzene-d5	86.6	30-130	9/19/20 18:15
Nitrobenzene-d5	81.3	30-130	9/22/20 10:13
Nitrobenzene-d5	67.8	30-130	10/6/20 21:11
2-Fluorobiphenyl	89.3	30-130	9/22/20 10:13
2-Fluorobiphenyl	90.0	30-130	9/19/20 18:15

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-1 0-1'

Sampled: 9/3/2020 10:18

Sample ID: 2010285-01

Sample Matrix: Soil

Sample Flags: H-10

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	60.0		30-130					10/6/20 21:11	
2,4,6-Tribromophenol	2.90 *		30-130		S-03			9/22/20 10:13	
2,4,6-Tribromophenol	1.88 *		30-130		S-19			9/19/20 18:15	
p-Terphenyl-d14	76.8		30-130					9/19/20 18:15	
p-Terphenyl-d14	74.8		30-130					9/22/20 10:13	
p-Terphenyl-d14	50.4		30-130					10/6/20 21:11	

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-1 0-1'

Sampled: 9/3/2020 10:18

Sample ID: 2010285-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:18	AYH
Aroclor-1221 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:18	AYH
Aroclor-1232 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:18	AYH
Aroclor-1242 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:18	AYH
Aroclor-1248 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:18	AYH
Aroclor-1254 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:18	AYH
Aroclor-1260 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:18	AYH
Aroclor-1262 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:18	AYH
Aroclor-1268 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:18	AYH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.7	30-150						9/21/20 13:18	
Decachlorobiphenyl [2]	87.0	30-150						9/21/20 13:18	
Tetrachloro-m-xylene [1]	82.9	30-150						9/21/20 13:18	
Tetrachloro-m-xylene [2]	90.1	30-150						9/21/20 13:18	

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-1 0-1'

Sampled: 9/3/2020 10:18

Sample ID: 2010285-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	5.1	3.6	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:17	QNW
Barium	42	1.8	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:17	QNW
Cadmium	ND	0.36	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:17	QNW
Chromium	10	0.72	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:17	QNW
Lead	13	0.54	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:17	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	9/10/20	9/11/20 12:55	CJV
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:17	QNW
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:17	QNW

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

Project Location: Burlington, VT

Sample Description:

Work Order: 20I0285

Date Received: 9/4/2020

Field Sample #: SB-1 0-1'

Sampled: 9/3/2020 10:18

Sample ID: 20I0285-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.1		% Wt	1		SM 2540G	9/19/20	9/20/20 8:19	JS

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 0-1'

Sampled: 9/3/2020 10:27

Sample ID: 2010285-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Acrylonitrile	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Bromochloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Bromomethane	ND	0.0071	mg/Kg dry	1	V-34	SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
tert-Butyl Alcohol (TBA)	ND	0.029	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1	V-05	SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Chlorodibromomethane	ND	0.00071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Chloromethane	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,2-Dibromoethane (EDB)	ND	0.00071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,3-Dichloropropane	ND	0.00071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
cis-1,3-Dichloropropene	ND	0.00071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
trans-1,3-Dichloropropene	ND	0.00071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Diethyl Ether	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 0-1'

Sampled: 9/3/2020 10:27

Sample ID: 2010285-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,4-Dioxane	ND	0.071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Methyl Acetate	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Methyl Cyclohexane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.00071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Tetrahydrofuran	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,3,5-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Vinyl Chloride	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:08	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	107	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	103	70-130							

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Project Location: Burlington, VT

Sample Description:

Work Order: 20I0285

Date Received: 9/4/2020

Field Sample #: SB-3 0-1'

Sampled: 9/3/2020 10:27

Sample ID: 20I0285-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Acenaphthene (SIM)	ND	0.018	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Acenaphthylene (SIM)	ND	0.018	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Aniline	ND	0.37	mg/Kg dry	1	V-05, V-34	SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Aniline	ND	0.37	mg/Kg dry	1	V-05, V-34	SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Anthracene (SIM)	ND	0.014	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Benzidine	ND	0.72	mg/Kg dry	1	V-04, V-05, V-34	SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Benzidine	ND	0.71	mg/Kg dry	1	L-04, V-04, V-05, V-34	SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Benzo(a)anthracene (SIM)	ND	0.0036	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Benzo(a)pyrene (SIM)	ND	0.0036	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Benzo(b)fluoranthene (SIM)	ND	0.0036	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Benzo(g,h,i)perylene (SIM)	ND	0.036	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Benzo(k)fluoranthene (SIM)	ND	0.014	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1	V-05	SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL

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Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 0-1'

Sampled: 9/3/2020 10:27

Sample ID: 2010285-02

Sample Matrix: Soil

Sample Flags: H-06

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
4-Chloroaniline	ND	0.72	mg/Kg dry	1	V-34	SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-34	SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
4-Chloro-3-methylphenol	ND	0.72	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
4-Chloro-3-methylphenol	ND	0.71	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Chrysene (SIM)	ND	0.014	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Dibenz(a,h)anthracene (SIM)	ND	0.0036	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1	R-05	SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL

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Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 0-1'

Sampled: 9/3/2020 10:27

Sample ID: 2010285-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Fluoranthene (SIM)	ND	0.036	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Fluorene (SIM)	ND	0.072	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1	V-06	SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Hexachlorocyclopentadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Hexachlorocyclopentadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.014	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
1-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
1-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
2-Methylnaphthalene (SIM)	ND	0.072	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Naphthalene (SIM)	ND	0.072	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
2-Nitroaniline	ND	0.37	mg/Kg dry	1	V-06	SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL

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Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 0-1'

Sampled: 9/3/2020 10:27

Sample ID: 2010285-02

Sample Matrix: Soil

Sample Flags: H-06

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
4-Nitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
N-Nitrosodimethylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
N-Nitrosodimethylamine	ND	0.37	mg/Kg dry	1	V-05	SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Phenanthrene (SIM)	ND	0.018	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
Pyrene (SIM)	ND	0.072	mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
B(a)P-TE	0.0076		mg/Kg dry	2		SW-846 8270D-E	10/5/20	10/6/20 21:39	IMR
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 18:39	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 10:37	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	60.1	30-130	9/19/20 18:39
2-Fluorophenol	55.9	30-130	9/22/20 10:37
Phenol-d6	84.3	30-130	9/19/20 18:39
Phenol-d6	77.7	30-130	9/22/20 10:37
Nitrobenzene-d5	89.4	30-130	9/19/20 18:39
Nitrobenzene-d5	78.8	30-130	9/22/20 10:37
Nitrobenzene-d5	66.3	30-130	10/6/20 21:39
2-Fluorobiphenyl	87.9	30-130	9/19/20 18:39
2-Fluorobiphenyl	87.1	30-130	9/22/20 10:37

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

Project Location: Burlington, VT

Sample Description:

Work Order: 20I0285

Date Received: 9/4/2020

Field Sample #: SB-3 0-1'

Sampled: 9/3/2020 10:27

Sample ID: 20I0285-02

Sample Matrix: Soil

Sample Flags: H-10

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	58.4		30-130					10/6/20 21:39	
2,4,6-Tribromophenol	2.88 *		30-130		S-19			9/19/20 18:39	
2,4,6-Tribromophenol	6.45 *		30-130		S-03			9/22/20 10:37	
p-Terphenyl-d14	92.0		30-130					9/19/20 18:39	
p-Terphenyl-d14	90.0		30-130					9/22/20 10:37	
p-Terphenyl-d14	52.1		30-130					10/6/20 21:39	

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 0-1'

Sampled: 9/3/2020 10:27

Sample ID: 2010285-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:31	AYH
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:31	AYH
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:31	AYH
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:31	AYH
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:31	AYH
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:31	AYH
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:31	AYH
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:31	AYH
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:31	AYH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.3	30-150							
Decachlorobiphenyl [2]	91.0	30-150							
Tetrachloro-m-xylene [1]	74.7	30-150							
Tetrachloro-m-xylene [2]	83.5	30-150							

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 0-1'

Sampled: 9/3/2020 10:27

Sample ID: 2010285-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	5.7	3.5	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:23	QNW
Barium	48	1.8	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:23	QNW
Cadmium	ND	0.35	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:23	QNW
Chromium	9.1	0.70	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:23	QNW
Lead	13	0.53	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:23	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	9/10/20	9/11/20 12:57	CJV
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:23	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:23	QNW

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

Project Location: Burlington, VT

Sample Description:

Work Order: 20I0285

Date Received: 9/4/2020

Field Sample #: SB-3 0-1'

Sampled: 9/3/2020 10:27

Sample ID: 20I0285-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.9		% Wt	1		SM 2540G	9/19/20	9/20/20 8:19	JS

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 1-2'

Sampled: 9/3/2020 10:36

Sample ID: 2010285-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Acrylonitrile	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Bromochloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Bromomethane	ND	0.0068	mg/Kg dry	1	V-34	SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
2-Butanone (MEK)	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
tert-Butyl Alcohol (TBA)	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1	V-05	SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Carbon Disulfide	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Chlorodibromomethane	ND	0.00068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Chloroform	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Chloromethane	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,2-Dibromoethane (EDB)	ND	0.00068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
trans-1,4-Dichloro-2-butene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,1-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,3-Dichloropropane	ND	0.00068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
cis-1,3-Dichloropropene	ND	0.00068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
trans-1,3-Dichloropropene	ND	0.00068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Diethyl Ether	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 1-2'

Sampled: 9/3/2020 10:36

Sample ID: 2010285-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,4-Dioxane	ND	0.068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Methyl Acetate	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Methyl Cyclohexane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Naphthalene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.00068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Tetrahydrofuran	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,3,5-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Vinyl Chloride	ND	0.0068	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
m+p Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	9/9/20	9/9/20 9:32	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	107	70-130							
Toluene-d8	97.8	70-130							
4-Bromofluorobenzene	103	70-130							

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 1-2'

Sampled: 9/3/2020 10:36

Sample ID: 2010285-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Acenaphthene (SIM)	ND	0.0089	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Acenaphthylene (SIM)	ND	0.0089	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Aniline	ND	0.37	mg/Kg dry	1	V-05, V-34	SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Aniline	ND	0.37	mg/Kg dry	1	V-05, V-34	SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Anthracene (SIM)	ND	0.0071	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Benzidine	ND	0.71	mg/Kg dry	1	L-04, V-04, V-05, V-34	SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Benzidine	ND	0.72	mg/Kg dry	1	V-04, V-05, V-34	SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Benzo(a)anthracene (SIM)	ND	0.0018	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Benzo(a)pyrene (SIM)	ND	0.0018	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Benzo(b)fluoranthene (SIM)	ND	0.0018	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Benzo(g,h,i)perylene (SIM)	ND	0.018	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Benzo(k)fluoranthene (SIM)	ND	0.0071	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Benzoic Acid	ND	1.1	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1	V-05	SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL

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Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 1-2'

Sampled: 9/3/2020 10:36

Sample ID: 2010285-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
4-Chloroaniline	ND	0.72	mg/Kg dry	1	V-34	SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-34	SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
4-Chloro-3-methylphenol	ND	0.72	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
4-Chloro-3-methylphenol	ND	0.71	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Chrysene (SIM)	ND	0.0071	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Dibenz(a,h)anthracene (SIM)	ND	0.0018	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1	R-05	SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 1-2'

Sampled: 9/3/2020 10:36

Sample ID: 2010285-03

Sample Matrix: Soil

Sample Flags: H-06

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Fluoranthene (SIM)	ND	0.018	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Fluorene (SIM)	ND	0.036	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1	V-06	SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Hexachlorocyclopentadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Hexachlorocyclopentadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.0071	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
1-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
1-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
2-Methylnaphthalene (SIM)	ND	0.036	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Naphthalene (SIM)	ND	0.036	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
2-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2-Nitroaniline	ND	0.37	mg/Kg dry	1	V-06	SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL

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Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 1-2'

Sampled: 9/3/2020 10:36

Sample ID: 2010285-03

Sample Matrix: Soil

Sample Flags: H-06

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
4-Nitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
N-Nitrosodimethylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
N-Nitrosodimethylamine	ND	0.37	mg/Kg dry	1	V-05	SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Phenanthrene (SIM)	ND	0.0089	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
Pyrene (SIM)	ND	0.036	mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
B(a)P-TE	0.0046		mg/Kg dry	1		SW-846 8270D-E	10/5/20	10/7/20 9:29	IMR
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/21/20	9/22/20 11:01	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	9/14/20	9/19/20 19:03	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	62.0	30-130	9/22/20 11:01
2-Fluorophenol	52.0	30-130	9/19/20 19:03
Phenol-d6	76.8	30-130	9/22/20 11:01
Phenol-d6	76.7	30-130	9/19/20 19:03
Nitrobenzene-d5	60.9	30-130	10/7/20 9:29
Nitrobenzene-d5	81.2	30-130	9/19/20 19:03
Nitrobenzene-d5	78.5	30-130	9/22/20 11:01
2-Fluorobiphenyl	56.9	30-130	10/7/20 9:29
2-Fluorobiphenyl	86.1	30-130	9/22/20 11:01

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

Project Location: Burlington, VT

Sample Description:

Work Order: 20I0285

Date Received: 9/4/2020

Field Sample #: SB-3 1-2'

Sampled: 9/3/2020 10:36

Sample ID: 20I0285-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	84.7		30-130					9/19/20 19:03	
2,4,6-Tribromophenol	18.4 *		30-130		S-07			9/22/20 11:01	
2,4,6-Tribromophenol	3.70 *		30-130		S-19			9/19/20 19:03	
p-Terphenyl-d14	92.0		30-130					9/22/20 11:01	
p-Terphenyl-d14	56.6		30-130					10/7/20 9:29	
p-Terphenyl-d14	89.7		30-130					9/19/20 19:03	

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 1-2'

Sampled: 9/3/2020 10:36

Sample ID: 2010285-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:44	AYH
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:44	AYH
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:44	AYH
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:44	AYH
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:44	AYH
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:44	AYH
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:44	AYH
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:44	AYH
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/16/20	9/21/20 13:44	AYH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.2	30-150							
Decachlorobiphenyl [2]	92.1	30-150							
Tetrachloro-m-xylene [1]	79.4	30-150							
Tetrachloro-m-xylene [2]	87.9	30-150							

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 1-2'

Sampled: 9/3/2020 10:36

Sample ID: 2010285-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	4.9	3.6	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:28	QNW
Barium	37	1.8	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:28	QNW
Cadmium	ND	0.36	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:28	QNW
Chromium	9.0	0.73	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:28	QNW
Lead	14	0.55	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:28	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	9/10/20	9/11/20 12:58	CJV
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:28	QNW
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	9/15/20	9/17/20 7:28	QNW

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

Project Location: Burlington, VT

Sample Description:

Work Order: 2010285

Date Received: 9/4/2020

Field Sample #: SB-3 1-2'

Sampled: 9/3/2020 10:36

Sample ID: 2010285-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.4		% Wt	1		SM 2540G	9/19/20	9/20/20 8:19	JS

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

Sample Extraction Data**Prep Method: % Solids Analytical Method: SM 2540G**

Lab Number [Field ID]	Batch	Date
20I0285-01 [SB-1 0-1']	B266867	09/19/20
20I0285-02 [SB-3 0-1']	B266867	09/19/20
20I0285-03 [SB-3 1-2']	B266867	09/19/20

Prep Method: SW-846 3050B Analytical Method: SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20I0285-01 [SB-1 0-1']	B266522	1.50	50.0	09/15/20
20I0285-02 [SB-3 0-1']	B266522	1.55	50.0	09/15/20
20I0285-03 [SB-3 1-2']	B266522	1.50	50.0	09/15/20

Prep Method: SW-846 7471 Analytical Method: SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20I0285-01 [SB-1 0-1']	B266184	0.583	50.0	09/10/20
20I0285-02 [SB-3 0-1']	B266184	0.584	50.0	09/10/20
20I0285-03 [SB-3 1-2']	B266184	0.587	50.0	09/10/20

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20I0285-01 [SB-1 0-1']	B266580	10.7	10.0	09/16/20
20I0285-02 [SB-3 0-1']	B266580	10.6	10.0	09/16/20
20I0285-03 [SB-3 1-2']	B266580	10.7	10.0	09/16/20

Prep Method: SW-846 5035 Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20I0285-01 [SB-1 0-1']	B266046	6.96	10.0	09/09/20
20I0285-02 [SB-3 0-1']	B266046	7.61	10.0	09/09/20
20I0285-03 [SB-3 1-2']	B266046	8.07	10.0	09/09/20

Prep Method: SW-846 3546 Analytical Method: SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20I0285-01 [SB-1 0-1']	B266378	30.0	1.00	09/14/20
20I0285-02 [SB-3 0-1']	B266378	30.0	1.00	09/14/20
20I0285-03 [SB-3 1-2']	B266378	30.0	1.00	09/14/20

Prep Method: SW-846 3546 Analytical Method: SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20I0285-01RE1 [SB-1 0-1']	B266943	30.7	1.00	09/21/20
20I0285-02RE1 [SB-3 0-1']	B266943	30.3	1.00	09/21/20
20I0285-03RE1 [SB-3 1-2']	B266943	30.3	1.00	09/21/20

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

Sample Extraction Data

Prep Method: SW-846 3546 **Analytical Method:** SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20I0285-01 [SB-1 0-1']	B267971	30.1	1.00	10/05/20
20I0285-02 [SB-3 0-1']	B267971	30.2	1.00	10/05/20
20I0285-03 [SB-3 1-2']	B267971	30.6	1.00	10/05/20

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

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B266046 - SW-846 5035
Blank (B266046-BLK1)

Prepared & Analyzed: 09/09/20

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							V-05
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B266046 - SW-846 5035

Blank (B266046-BLK1)

Prepared & Analyzed: 09/09/20

Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0525		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0486		mg/Kg wet	0.0500		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0517		mg/Kg wet	0.0500		103	70-130			

LCS (B266046-BS1)

Prepared & Analyzed: 09/09/20

Acetone	0.181	0.10	mg/Kg wet	0.200		90.5	70-160			†
Acrylonitrile	0.0230	0.0060	mg/Kg wet	0.0200		115	70-130			
tert-Amyl Methyl Ether (TAME)	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
Benzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Bromobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130			
Bromochloromethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromodichloromethane	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130			
Bromoform	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
Bromomethane	0.0170	0.010	mg/Kg wet	0.0200		85.1	40-130	V-34		†
2-Butanone (MEK)	0.232	0.040	mg/Kg wet	0.200		116	70-160			†
tert-Butyl Alcohol (TBA)	0.213	0.040	mg/Kg wet	0.200		106	40-130			†
n-Butylbenzene	0.0154	0.0020	mg/Kg wet	0.0200		76.8	70-130		V-05	
sec-Butylbenzene	0.0159	0.0020	mg/Kg wet	0.0200		79.7	70-130			
tert-Butylbenzene	0.0162	0.0020	mg/Kg wet	0.0200		81.1	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0207	0.0010	mg/Kg wet	0.0200		103	70-130			
Carbon Disulfide	0.164	0.0060	mg/Kg wet	0.200		82.1	70-130			
Carbon Tetrachloride	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Chlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
Chlorodibromomethane	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130			
Chloroethane	0.0164	0.020	mg/Kg wet	0.0200		81.9	70-130			
Chloroform	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130			

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B266046 - SW-846 5035										
LCS (B266046-BS1)				Prepared & Analyzed: 09/09/20						
Chloromethane	0.0206	0.010	mg/Kg wet	0.0200		103	70-130			
2-Chlorotoluene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130			
4-Chlorotoluene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0164	0.0020	mg/Kg wet	0.0200		81.9	70-130			
1,2-Dibromoethane (EDB)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
Dibromomethane	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
1,2-Dichlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
1,3-Dichlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130			
1,4-Dichlorobenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.8	70-130			
trans-1,4-Dichloro-2-butene	0.0181	0.0040	mg/Kg wet	0.0200		90.7	70-130			
Dichlorodifluoromethane (Freon 12)	0.0166	0.020	mg/Kg wet	0.0200		82.9	40-160			V-36 †
1,1-Dichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
1,2-Dichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1-Dichloroethylene	0.0175	0.0040	mg/Kg wet	0.0200		87.4	70-130			
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
trans-1,2-Dichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,3-Dichloropropane	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
2,2-Dichloropropane	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
1,1-Dichloropropene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
cis-1,3-Dichloropropene	0.0186	0.0010	mg/Kg wet	0.0200		92.9	70-130			
trans-1,3-Dichloropropene	0.0192	0.0010	mg/Kg wet	0.0200		96.1	70-130			
Diethyl Ether	0.0204	0.020	mg/Kg wet	0.0200		102	70-130			
Diisopropyl Ether (DIPE)	0.0238	0.0010	mg/Kg wet	0.0200		119	70-130			
1,4-Dioxane	0.226	0.10	mg/Kg wet	0.200		113	40-160			†
Ethylbenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130			
Hexachlorobutadiene	0.0165	0.0020	mg/Kg wet	0.0200		82.6	70-160			
2-Hexanone (MBK)	0.215	0.020	mg/Kg wet	0.200		108	70-160			†
Isopropylbenzene (Cumene)	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130			
p-Isopropyltoluene (p-Cymene)	0.0164	0.0020	mg/Kg wet	0.0200		81.8	70-130			
Methyl Acetate	0.0283	0.0020	mg/Kg wet	0.0200		141 *	70-130			L-02, V-20
Methyl tert-Butyl Ether (MTBE)	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130			
Methyl Cyclohexane	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
Methylene Chloride	0.0227	0.020	mg/Kg wet	0.0200		113	40-160			†
4-Methyl-2-pentanone (MIBK)	0.223	0.020	mg/Kg wet	0.200		111	70-160			†
Naphthalene	0.0175	0.0040	mg/Kg wet	0.0200		87.3	40-130			†
n-Propylbenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.4	70-130			
Styrene	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130			
1,1,1,2-Tetrachloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
1,1,2,2-Tetrachloroethane	0.0184	0.0010	mg/Kg wet	0.0200		92.2	70-130			
Tetrachloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Tetrahydrofuran	0.0241	0.010	mg/Kg wet	0.0200		120	70-130			V-20
Toluene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130			
1,2,3-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
1,2,4-Trichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130			
1,3,5-Trichlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130			
1,1,1-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,2-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Trichloroethylene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
Trichlorofluoromethane (Freon 11)	0.0160	0.010	mg/Kg wet	0.0200		79.8	70-130			
1,2,3-Trichloropropane	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130			

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

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B266046 - SW-846 5035										
LCS (B266046-BS1)				Prepared & Analyzed: 09/09/20						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0169	0.010	mg/Kg wet	0.0200		84.7	70-130			
1,2,4-Trimethylbenzene	0.0160	0.0020	mg/Kg wet	0.0200		80.1	70-130			
1,3,5-Trimethylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130			
Vinyl Chloride	0.0172	0.010	mg/Kg wet	0.0200		86.0	40-130			†
m+p Xylene	0.0347	0.0040	mg/Kg wet	0.0400		86.8	70-130			
o-Xylene	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0500		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0504		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0521		mg/Kg wet	0.0500		104	70-130			
LCS Dup (B266046-BSD1)				Prepared & Analyzed: 09/09/20						
Acetone	0.177	0.10	mg/Kg wet	0.200		88.4	70-160	2.39	25	†
Acrylonitrile	0.0227	0.0060	mg/Kg wet	0.0200		114	70-130	1.16	25	
tert-Amyl Methyl Ether (TAME)	0.0196	0.0010	mg/Kg wet	0.0200		98.2	70-130	2.16	25	
Benzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130	3.78	25	
Bromobenzene	0.0170	0.0020	mg/Kg wet	0.0200		84.9	70-130	2.48	25	
Bromochloromethane	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	0.120	25	
Bromodichloromethane	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130	5.00	25	
Bromoform	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130	3.73	25	
Bromomethane	0.0162	0.010	mg/Kg wet	0.0200		81.0	40-130	5.00	25	V-34 †
2-Butanone (MEK)	0.236	0.040	mg/Kg wet	0.200		118	70-160	1.63	25	†
tert-Butyl Alcohol (TBA)	0.202	0.040	mg/Kg wet	0.200		101	40-130	5.03	25	†
n-Butylbenzene	0.0147	0.0020	mg/Kg wet	0.0200		73.7	70-130	4.09	25	V-05
sec-Butylbenzene	0.0155	0.0020	mg/Kg wet	0.0200		77.3	70-130	2.96	25	
tert-Butylbenzene	0.0154	0.0020	mg/Kg wet	0.0200		76.9	70-160	5.33	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	0.0581	25	
Carbon Disulfide	0.161	0.0060	mg/Kg wet	0.200		80.5	70-130	1.93	25	
Carbon Tetrachloride	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130	3.87	25	
Chlorobenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.4	70-130	4.80	25	
Chlorodibromomethane	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	1.71	25	
Chloroethane	0.0168	0.020	mg/Kg wet	0.0200		83.8	70-130	2.27	25	
Chloroform	0.0199	0.0040	mg/Kg wet	0.0200		99.3	70-130	2.78	25	
Chloromethane	0.0203	0.010	mg/Kg wet	0.0200		101	70-130	1.36	25	
2-Chlorotoluene	0.0168	0.0020	mg/Kg wet	0.0200		84.2	70-130	3.58	25	
4-Chlorotoluene	0.0170	0.0020	mg/Kg wet	0.0200		85.2	70-130	3.58	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0163	0.0020	mg/Kg wet	0.0200		81.6	70-130	0.477	25	
1,2-Dibromoethane (EDB)	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130	4.17	25	
Dibromomethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	1.35	25	
1,2-Dichlorobenzene	0.0172	0.0020	mg/Kg wet	0.0200		86.0	70-130	0.846	25	
1,3-Dichlorobenzene	0.0166	0.0020	mg/Kg wet	0.0200		83.2	70-130	3.70	25	
1,4-Dichlorobenzene	0.0166	0.0020	mg/Kg wet	0.0200		83.2	70-130	3.16	25	
trans-1,4-Dichloro-2-butene	0.0176	0.0040	mg/Kg wet	0.0200		88.1	70-130	2.84	25	
Dichlorodifluoromethane (Freon 12)	0.0162	0.020	mg/Kg wet	0.0200		80.8	40-160	2.66	25	V-36 †
1,1-Dichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	1.30	25	
1,2-Dichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	2.32	25	
1,1-Dichloroethylene	0.0169	0.0040	mg/Kg wet	0.0200		84.3	70-130	3.58	25	
cis-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	3.61	25	
trans-1,2-Dichloroethylene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	1.10	25	
1,2-Dichloropropane	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130	2.72	25	
1,3-Dichloropropane	0.0197	0.0010	mg/Kg wet	0.0200		98.7	70-130	2.34	25	
2,2-Dichloropropane	0.0176	0.0020	mg/Kg wet	0.0200		87.9	70-130	1.04	25	
1,1-Dichloropropene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	3.48	25	

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B266046 - SW-846 5035										
LCS Dup (B266046-BSD1)				Prepared & Analyzed: 09/09/20						
cis-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.4	70-130	1.68	25	
trans-1,3-Dichloropropene	0.0188	0.0010	mg/Kg wet	0.0200		93.9	70-130	2.32	25	
Diethyl Ether	0.0203	0.020	mg/Kg wet	0.0200		102	70-130	0.216	25	
Diisopropyl Ether (DIPE)	0.0237	0.0010	mg/Kg wet	0.0200		118	70-130	0.615	25	
1,4-Dioxane	0.164	0.10	mg/Kg wet	0.200		82.1	40-160	31.9	50	† ‡
Ethylbenzene	0.0166	0.0020	mg/Kg wet	0.0200		82.8	70-130	5.66	25	
Hexachlorobutadiene	0.0157	0.0020	mg/Kg wet	0.0200		78.4	70-160	5.33	25	
2-Hexanone (MBK)	0.216	0.020	mg/Kg wet	0.200		108	70-160	0.493	25	†
Isopropylbenzene (Cumene)	0.0170	0.0020	mg/Kg wet	0.0200		85.0	70-130	6.03	25	
p-Isopropyltoluene (p-Cymene)	0.0158	0.0020	mg/Kg wet	0.0200		79.0	70-130	3.51	25	
Methyl Acetate	0.0294	0.0020	mg/Kg wet	0.0200		147	* 70-130	3.80	25	L-02, V-20
Methyl tert-Butyl Ether (MTBE)	0.0209	0.0040	mg/Kg wet	0.0200		104	70-130	2.99	25	
Methyl Cyclohexane	0.0176	0.0020	mg/Kg wet	0.0200		88.1	70-130	3.84	25	
Methylene Chloride	0.0234	0.020	mg/Kg wet	0.0200		117	40-160	3.22	25	†
4-Methyl-2-pentanone (MIBK)	0.220	0.020	mg/Kg wet	0.200		110	70-160	1.42	25	†
Naphthalene	0.0176	0.0040	mg/Kg wet	0.0200		88.2	40-130	1.11	25	†
n-Propylbenzene	0.0163	0.0020	mg/Kg wet	0.0200		81.3	70-130	4.85	25	
Styrene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130	3.08	25	
1,1,1,2-Tetrachloroethane	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130	5.71	25	
1,1,2,2-Tetrachloroethane	0.0175	0.0010	mg/Kg wet	0.0200		87.6	70-130	5.15	25	
Tetrachloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	3.22	25	
Tetrahydrofuran	0.0258	0.010	mg/Kg wet	0.0200		129	70-130	6.73	25	V-20
Toluene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130	1.31	25	
1,2,3-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130	4.41	25	
1,2,4-Trichlorobenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.4	70-130	1.41	25	
1,3,5-Trichlorobenzene	0.0165	0.0020	mg/Kg wet	0.0200		82.7	70-130	4.63	25	
1,1,1-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.18	25	
1,1,2-Trichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130	5.48	25	
Trichloroethylene	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130	2.54	25	
Trichlorofluoromethane (Freon 11)	0.0154	0.010	mg/Kg wet	0.0200		77.0	70-130	3.57	25	
1,2,3-Trichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130	1.94	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0165	0.010	mg/Kg wet	0.0200		82.7	70-130	2.34	25	
1,2,4-Trimethylbenzene	0.0157	0.0020	mg/Kg wet	0.0200		78.5	70-130	2.02	25	
1,3,5-Trimethylbenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.5	70-130	5.41	25	
Vinyl Chloride	0.0165	0.010	mg/Kg wet	0.0200		82.4	40-130	4.24	25	†
m+p Xylene	0.0338	0.0040	mg/Kg wet	0.0400		84.4	70-130	2.82	25	
o-Xylene	0.0167	0.0020	mg/Kg wet	0.0200		83.5	70-130	3.65	25	
Surrogate: 1,2-Dichloroethane-d4	0.0511		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0524		mg/Kg wet	0.0500		105	70-130			

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B266378 - SW-846 3546										
Blank (B266378-BLK1)				Prepared: 09/14/20 Analyzed: 09/15/20						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-34
Anthracene	ND	0.17	mg/Kg wet							
Benzidine	ND	0.66	mg/Kg wet							V-34, V-04, V-05
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							V-20
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.34	mg/Kg wet							V-20
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B266378 - SW-846 3546
Blank (B266378-BLK1)

Prepared: 09/14/20 Analyzed: 09/15/20

2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							V-20
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							V-20
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-20
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.89		mg/Kg wet	6.67		73.4	30-130			
Surrogate: Phenol-d6	5.48		mg/Kg wet	6.67		82.2	30-130			
Surrogate: Nitrobenzene-d5	2.69		mg/Kg wet	3.33		80.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.54		mg/Kg wet	3.33		76.1	30-130			
Surrogate: 2,4,6-Tribromophenol	5.13		mg/Kg wet	6.67		76.9	30-130			
Surrogate: p-Terphenyl-d14	2.83		mg/Kg wet	3.33		84.9	30-130			

LCS (B266378-BS1)

Prepared: 09/14/20 Analyzed: 09/15/20

Acenaphthene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140			
Acenaphthylene	1.38	0.17	mg/Kg wet	1.67		82.7	40-140			
Acetophenone	1.34	0.34	mg/Kg wet	1.67		80.4	40-140			
Aniline	0.980	0.34	mg/Kg wet	1.67		58.8	10-140			V-34 †
Anthracene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140			
Benzdine	0.809	0.66	mg/Kg wet	1.67		48.6	40-140			V-04, V-05, V-34
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			
Benzo(a)pyrene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140			
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.1	40-140			
Benzo(g,h,i)perylene	1.56	0.17	mg/Kg wet	1.67		93.9	40-140			
Benzo(k)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140			
Benzoic Acid	0.907	1.0	mg/Kg wet	1.67		54.4	30-130			
Bis(2-chloroethoxy)methane	1.38	0.34	mg/Kg wet	1.67		82.5	40-140			
Bis(2-chloroethyl)ether	1.42	0.34	mg/Kg wet	1.67		85.1	40-140			
Bis(2-chloroisopropyl)ether	1.58	0.34	mg/Kg wet	1.67		94.8	40-140			
Bis(2-Ethylhexyl)phthalate	1.60	0.34	mg/Kg wet	1.67		96.1	40-140			
4-Bromophenylphenylether	1.27	0.34	mg/Kg wet	1.67		76.3	40-140			
Butylbenzylphthalate	1.48	0.34	mg/Kg wet	1.67		88.6	40-140			
Carbazole	1.31	0.17	mg/Kg wet	1.67		78.3	40-140			
4-Chloroaniline	0.900	0.66	mg/Kg wet	1.67		54.0	10-140			V-34 †
4-Chloro-3-methylphenol	1.40	0.66	mg/Kg wet	1.67		84.1	30-130			
2-Chloronaphthalene	1.21	0.34	mg/Kg wet	1.67		72.4	40-140			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B266378 - SW-846 3546										
LCS (B266378-BS1)					Prepared: 09/14/20 Analyzed: 09/15/20					
2-Chlorophenol	1.27	0.34	mg/Kg wet	1.67		76.3	30-130			
4-Chlorophenylphenylether	1.16	0.34	mg/Kg wet	1.67		69.7	40-140			
Chrysene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140			
Dibenz(a,h)anthracene	1.51	0.17	mg/Kg wet	1.67		90.8	40-140			
Dibenzofuran	1.31	0.34	mg/Kg wet	1.67		78.8	40-140			
Di-n-butylphthalate	1.37	0.34	mg/Kg wet	1.67		82.2	40-140			
1,2-Dichlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.5	40-140			
1,3-Dichlorobenzene	1.13	0.34	mg/Kg wet	1.67		67.8	40-140			
1,4-Dichlorobenzene	1.13	0.34	mg/Kg wet	1.67		67.6	40-140			
3,3-Dichlorobenzidine	1.15	0.17	mg/Kg wet	1.67		68.9	20-140			†
2,4-Dichlorophenol	1.27	0.34	mg/Kg wet	1.67		76.5	30-130			
Diethylphthalate	1.30	0.34	mg/Kg wet	1.67		78.1	40-140			
2,4-Dimethylphenol	1.28	0.34	mg/Kg wet	1.67		77.1	30-130			
Dimethylphthalate	1.28	0.34	mg/Kg wet	1.67		76.7	40-140			
4,6-Dinitro-2-methylphenol	1.25	0.34	mg/Kg wet	1.67		74.8	30-130			
2,4-Dinitrophenol	1.15	0.66	mg/Kg wet	1.67		68.8	30-130			
2,4-Dinitrotoluene	1.44	0.34	mg/Kg wet	1.67		86.6	40-140			V-06
2,6-Dinitrotoluene	1.49	0.34	mg/Kg wet	1.67		89.2	40-140			
Di-n-octylphthalate	1.56	0.34	mg/Kg wet	1.67		93.5	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.69	0.34	mg/Kg wet	1.67		102	40-140			V-06
Fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140			
Fluorene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140			
Hexachlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.5	40-140			
Hexachlorobutadiene	1.16	0.34	mg/Kg wet	1.67		69.8	40-140			
Hexachlorocyclopentadiene	1.19	0.34	mg/Kg wet	1.67		71.3	40-140			
Hexachloroethane	1.25	0.34	mg/Kg wet	1.67		74.8	40-140			
Indeno(1,2,3-cd)pyrene	1.64	0.17	mg/Kg wet	1.67		98.7	40-140			
Isophorone	1.55	0.34	mg/Kg wet	1.67		93.2	40-140			
1-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140			
2-Methylnaphthalene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140			
2-Methylphenol	1.46	0.34	mg/Kg wet	1.67		87.5	30-130			
3/4-Methylphenol	1.37	0.34	mg/Kg wet	1.67		82.3	30-130			
Naphthalene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140			
2-Nitroaniline	2.22	0.34	mg/Kg wet	1.67		133	40-140			V-06
3-Nitroaniline	1.27	0.34	mg/Kg wet	1.67		76.5	30-140			†
4-Nitroaniline	1.37	0.34	mg/Kg wet	1.67		82.0	40-140			
Nitrobenzene	1.46	0.34	mg/Kg wet	1.67		87.3	40-140			V-06
2-Nitrophenol	1.37	0.34	mg/Kg wet	1.67		82.1	30-130			
4-Nitrophenol	1.58	0.66	mg/Kg wet	1.67		94.9	30-130			V-06
N-Nitrosodimethylamine	1.32	0.34	mg/Kg wet	1.67		79.2	40-140			
N-Nitrosodiphenylamine/Diphenylamine	1.40	0.34	mg/Kg wet	1.67		84.1	40-140			
N-Nitrosodi-n-propylamine	1.47	0.34	mg/Kg wet	1.67		88.0	40-140			
Pentachloronitrobenzene	1.40	0.34	mg/Kg wet	1.67		83.8	40-140			
Pentachlorophenol	1.23	0.34	mg/Kg wet	1.67		73.8	30-130			
Phenanthrene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Phenol	1.36	0.34	mg/Kg wet	1.67		81.8	30-130			
Pyrene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140			
Pyridine	1.08	0.34	mg/Kg wet	1.67		64.8	30-140			†
1,2,4,5-Tetrachlorobenzene	1.18	0.34	mg/Kg wet	1.67		71.0	40-140			
1,2,4-Trichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.8	40-140			
2,4,5-Trichlorophenol	1.36	0.34	mg/Kg wet	1.67		81.8	30-130			
2,4,6-Trichlorophenol	1.31	0.34	mg/Kg wet	1.67		78.8	30-130			

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B266378 - SW-846 3546										
LCS (B266378-BS1)										
Prepared: 09/14/20 Analyzed: 09/15/20										
Surrogate: 2-Fluorophenol	5.54		mg/Kg wet	6.67		83.1	30-130			
Surrogate: Phenol-d6	6.08		mg/Kg wet	6.67		91.2	30-130			
Surrogate: Nitrobenzene-d5	3.10		mg/Kg wet	3.33		93.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.87		mg/Kg wet	3.33		86.1	30-130			
Surrogate: 2,4,6-Tribromophenol	6.11		mg/Kg wet	6.67		91.7	30-130			
Surrogate: p-Terphenyl-d14	2.97		mg/Kg wet	3.33		89.1	30-130			
LCS Dup (B266378-BS1)										
Prepared: 09/14/20 Analyzed: 09/15/20										
Acenaphthene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140	0.304	30	
Acenaphthylene	1.34	0.17	mg/Kg wet	1.67		80.6	40-140	2.60	30	
Acetophenone	1.28	0.34	mg/Kg wet	1.67		76.7	40-140	4.68	30	
Aniline	0.914	0.34	mg/Kg wet	1.67		54.8	10-140	7.01	50	V-34 † ‡
Anthracene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140	3.84	30	
Benzidine	0.770	0.66	mg/Kg wet	1.67		46.2	40-140	4.94	30	V-04, V-05, V-34
Benzo(a)anthracene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140	3.92	30	
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.8	40-140	3.96	30	
Benzo(b)fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.5	40-140	4.81	30	
Benzo(g,h,i)perylene	1.51	0.17	mg/Kg wet	1.67		90.4	40-140	3.82	30	
Benzo(k)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.1	40-140	5.79	30	
Benzoic Acid	0.900	1.0	mg/Kg wet	1.67		54.0	30-130	0.774	50	‡
Bis(2-chloroethoxy)methane	1.31	0.34	mg/Kg wet	1.67		78.3	40-140	5.25	30	
Bis(2-chloroethyl)ether	1.34	0.34	mg/Kg wet	1.67		80.5	40-140	5.58	30	
Bis(2-chloroisopropyl)ether	1.48	0.34	mg/Kg wet	1.67		88.7	40-140	6.63	30	
Bis(2-Ethylhexyl)phthalate	1.42	0.34	mg/Kg wet	1.67		85.2	40-140	12.0	30	
4-Bromophenylphenylether	1.24	0.34	mg/Kg wet	1.67		74.6	40-140	2.33	30	
Butylbenzylphthalate	1.37	0.34	mg/Kg wet	1.67		82.1	40-140	7.64	30	
Carbazole	1.25	0.17	mg/Kg wet	1.67		75.2	40-140	4.12	30	
4-Chloroaniline	0.861	0.66	mg/Kg wet	1.67		51.7	10-140	4.43	30	V-34 †
4-Chloro-3-methylphenol	1.36	0.66	mg/Kg wet	1.67		81.9	30-130	2.65	30	
2-Chloronaphthalene	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	13.0	30	
2-Chlorophenol	1.21	0.34	mg/Kg wet	1.67		72.6	30-130	5.05	30	
4-Chlorophenylphenylether	1.12	0.34	mg/Kg wet	1.67		67.0	40-140	3.89	30	
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140	3.71	30	
Dibenz(a,h)anthracene	1.41	0.17	mg/Kg wet	1.67		84.7	40-140	6.95	30	
Dibenzofuran	1.27	0.34	mg/Kg wet	1.67		76.0	40-140	3.69	30	
Di-n-butylphthalate	1.26	0.34	mg/Kg wet	1.67		75.5	40-140	8.50	30	
1,2-Dichlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.4	40-140	6.11	30	
1,3-Dichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.4	40-140	6.65	30	
1,4-Dichlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.2	40-140	5.10	30	
3,3-Dichlorobenzidine	1.08	0.17	mg/Kg wet	1.67		64.5	20-140	6.51	50	† ‡
2,4-Dichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.7	30-130	3.73	30	
Diethylphthalate	1.23	0.34	mg/Kg wet	1.67		73.7	40-140	5.90	30	
2,4-Dimethylphenol	1.25	0.34	mg/Kg wet	1.67		75.2	30-130	2.50	30	
Dimethylphthalate	1.23	0.34	mg/Kg wet	1.67		74.0	40-140	3.61	30	
4,6-Dinitro-2-methylphenol	1.22	0.34	mg/Kg wet	1.67		73.1	30-130	2.24	30	
2,4-Dinitrophenol	1.13	0.66	mg/Kg wet	1.67		68.0	30-130	1.20	30	
2,4-Dinitrotoluene	1.39	0.34	mg/Kg wet	1.67		83.3	40-140	3.88	30	V-06
2,6-Dinitrotoluene	1.44	0.34	mg/Kg wet	1.67		86.2	40-140	3.40	30	
Di-n-octylphthalate	1.36	0.34	mg/Kg wet	1.67		81.3	40-140	14.0	30	
1,2-Diphenylhydrazine/Azobenzene	1.63	0.34	mg/Kg wet	1.67		98.1	40-140	3.53	30	V-06
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.1	40-140	5.46	30	
Fluorene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140	3.19	30	

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B266378 - SW-846 3546

LCS Dup (B266378-BSD1)

Prepared: 09/14/20 Analyzed: 09/15/20

Hexachlorobenzene	1.35	0.34	mg/Kg wet	1.67		81.2	40-140	2.87	30	
Hexachlorobutadiene	1.08	0.34	mg/Kg wet	1.67		65.0	40-140	7.12	30	
Hexachlorocyclopentadiene	1.17	0.34	mg/Kg wet	1.67		70.1	40-140	1.78	30	
Hexachloroethane	1.17	0.34	mg/Kg wet	1.67		70.0	40-140	6.63	30	
Indeno(1,2,3-cd)pyrene	1.55	0.17	mg/Kg wet	1.67		93.3	40-140	5.63	30	
Isophorone	1.50	0.34	mg/Kg wet	1.67		90.1	40-140	3.40	30	
1-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140	3.70	30	
2-Methylnaphthalene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140	1.45	30	
2-Methylphenol	1.36	0.34	mg/Kg wet	1.67		81.5	30-130	7.15	30	
3/4-Methylphenol	1.34	0.34	mg/Kg wet	1.67		80.3	30-130	2.53	30	
Naphthalene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140	4.84	30	
2-Nitroaniline	2.13	0.34	mg/Kg wet	1.67		128	40-140	3.96	30	V-06
3-Nitroaniline	1.23	0.34	mg/Kg wet	1.67		73.7	30-140	3.73	30	†
4-Nitroaniline	1.32	0.34	mg/Kg wet	1.67		79.5	40-140	3.07	30	
Nitrobenzene	1.36	0.34	mg/Kg wet	1.67		81.9	40-140	6.38	30	V-06
2-Nitrophenol	1.33	0.34	mg/Kg wet	1.67		79.9	30-130	2.71	30	
4-Nitrophenol	1.56	0.66	mg/Kg wet	1.67		93.3	30-130	1.72	50	V-06 ‡
N-Nitrosodimethylamine	1.28	0.34	mg/Kg wet	1.67		76.8	40-140	3.00	30	
N-Nitrosodiphenylamine/Diphenylamine	1.38	0.34	mg/Kg wet	1.67		82.6	40-140	1.82	30	
N-Nitrosodi-n-propylamine	1.38	0.34	mg/Kg wet	1.67		82.8	40-140	6.09	30	
Pentachloronitrobenzene	1.35	0.34	mg/Kg wet	1.67		81.3	40-140	3.03	30	
Pentachlorophenol	1.17	0.34	mg/Kg wet	1.67		70.3	30-130	4.83	30	
Phenanthrene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	2.97	30	
Phenol	1.29	0.34	mg/Kg wet	1.67		77.5	30-130	5.32	30	
Pyrene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140	1.42	30	
Pyridine	1.02	0.34	mg/Kg wet	1.67		61.1	30-140	5.84	30	†
1,2,4,5-Tetrachlorobenzene	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	2.77	30	
1,2,4-Trichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	5.03	30	
2,4,5-Trichlorophenol	1.30	0.34	mg/Kg wet	1.67		77.8	30-130	5.11	30	
2,4,6-Trichlorophenol	1.26	0.34	mg/Kg wet	1.67		75.4	30-130	4.38	30	
Surrogate: 2-Fluorophenol	5.14		mg/Kg wet	6.67		77.1	30-130			
Surrogate: Phenol-d6	5.68		mg/Kg wet	6.67		85.1	30-130			
Surrogate: Nitrobenzene-d5	2.97		mg/Kg wet	3.33		89.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.73		mg/Kg wet	3.33		82.0	30-130			
Surrogate: 2,4,6-Tribromophenol	5.91		mg/Kg wet	6.67		88.7	30-130			
Surrogate: p-Terphenyl-d14	2.81		mg/Kg wet	3.33		84.4	30-130			

Batch B266943 - SW-846 3546

Blank (B266943-BLK1)

Prepared: 09/21/20 Analyzed: 09/22/20

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-05, V-34
Anthracene	ND	0.17	mg/Kg wet							
Benzdine	ND	0.66	mg/Kg wet							L-04, V-04, V-05, V-34
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B266943 - SW-846 3546										
Blank (B266943-BLK1)				Prepared: 09/21/20 Analyzed: 09/22/20						
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							R-05
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							V-06
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							V-05
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B266943 - SW-846 3546										
Blank (B266943-BLK1)				Prepared: 09/21/20 Analyzed: 09/22/20						
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.42		mg/Kg wet	6.67		66.4	30-130			
Surrogate: Phenol-d6	4.77		mg/Kg wet	6.67		71.5	30-130			
Surrogate: Nitrobenzene-d5	2.34		mg/Kg wet	3.33		70.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.58		mg/Kg wet	3.33		77.4	30-130			
Surrogate: 2,4,6-Tribromophenol	6.37		mg/Kg wet	6.67		95.6	30-130			
Surrogate: p-Terphenyl-d14	2.89		mg/Kg wet	3.33		86.8	30-130			
LCS (B266943-BS1)				Prepared: 09/21/20 Analyzed: 09/22/20						
Acenaphthene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140			
Acenaphthylene	1.33	0.17	mg/Kg wet	1.67		79.8	40-140			
Acetophenone	1.19	0.34	mg/Kg wet	1.67		71.3	40-140			
Aniline	0.660	0.34	mg/Kg wet	1.67		39.6	10-140			V-05, V-34 †
Anthracene	1.36	0.17	mg/Kg wet	1.67		81.8	40-140			
Benzdine	0.565	0.66	mg/Kg wet	1.67		33.9	* 40-140			L-04, V-04, V-05, V-34
Benzo(a)anthracene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Benzo(a)pyrene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140			
Benzo(b)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140			
Benzo(g,h,i)perylene	1.66	0.17	mg/Kg wet	1.67		99.7	40-140			
Benzo(k)fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140			
Benzoic Acid	0.578	1.0	mg/Kg wet	1.67		34.7	30-130			
Bis(2-chloroethoxy)methane	1.19	0.34	mg/Kg wet	1.67		71.6	40-140			
Bis(2-chloroethyl)ether	1.04	0.34	mg/Kg wet	1.67		62.5	40-140			
Bis(2-chloroisopropyl)ether	0.932	0.34	mg/Kg wet	1.67		55.9	40-140			V-05
Bis(2-Ethylhexyl)phthalate	1.51	0.34	mg/Kg wet	1.67		90.5	40-140			
4-Bromophenylphenylether	1.45	0.34	mg/Kg wet	1.67		87.1	40-140			
Butylbenzylphthalate	1.39	0.34	mg/Kg wet	1.67		83.2	40-140			
Carbazole	1.29	0.17	mg/Kg wet	1.67		77.4	40-140			
4-Chloroaniline	0.757	0.66	mg/Kg wet	1.67		45.4	10-140			V-34 †
4-Chloro-3-methylphenol	1.39	0.66	mg/Kg wet	1.67		83.6	30-130			
2-Chloronaphthalene	1.16	0.34	mg/Kg wet	1.67		69.4	40-140			
2-Chlorophenol	1.21	0.34	mg/Kg wet	1.67		72.7	30-130			
4-Chlorophenylphenylether	1.33	0.34	mg/Kg wet	1.67		80.0	40-140			
Chrysene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140			
Dibenz(a,h)anthracene	1.57	0.17	mg/Kg wet	1.67		94.1	40-140			
Dibenzofuran	1.33	0.34	mg/Kg wet	1.67		79.8	40-140			
Di-n-butylphthalate	1.40	0.34	mg/Kg wet	1.67		83.7	40-140			
1,2-Dichlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.7	40-140			
1,3-Dichlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.1	40-140			
1,4-Dichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.4	40-140			
3,3-Dichlorobenzidine	1.23	0.17	mg/Kg wet	1.67		74.1	20-140			†
2,4-Dichlorophenol	1.31	0.34	mg/Kg wet	1.67		78.8	30-130			
Diethylphthalate	1.34	0.34	mg/Kg wet	1.67		80.6	40-140			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B266943 - SW-846 3546										
LCS (B266943-BS1)				Prepared: 09/21/20 Analyzed: 09/22/20						
2,4-Dimethylphenol	1.26	0.34	mg/Kg wet	1.67		75.6	30-130			
Dimethylphthalate	1.29	0.34	mg/Kg wet	1.67		77.6	40-140			
4,6-Dinitro-2-methylphenol	1.23	0.34	mg/Kg wet	1.67		73.8	30-130			
2,4-Dinitrophenol	0.832	0.66	mg/Kg wet	1.67		49.9	30-130			R-05
2,4-Dinitrotoluene	1.53	0.34	mg/Kg wet	1.67		91.6	40-140			
2,6-Dinitrotoluene	1.54	0.34	mg/Kg wet	1.67		92.5	40-140			
Di-n-octylphthalate	1.44	0.34	mg/Kg wet	1.67		86.2	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
Fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140			
Fluorene	1.34	0.17	mg/Kg wet	1.67		80.6	40-140			
Hexachlorobenzene	1.62	0.34	mg/Kg wet	1.67		97.0	40-140			V-06
Hexachlorobutadiene	1.32	0.34	mg/Kg wet	1.67		78.9	40-140			
Hexachlorocyclopentadiene	1.01	0.34	mg/Kg wet	1.67		60.8	40-140			
Hexachloroethane	1.08	0.34	mg/Kg wet	1.67		65.1	40-140			
Indeno(1,2,3-cd)pyrene	1.67	0.17	mg/Kg wet	1.67		100	40-140			
Isophorone	1.30	0.34	mg/Kg wet	1.67		77.9	40-140			
1-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140			
2-Methylnaphthalene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140			
2-Methylphenol	1.21	0.34	mg/Kg wet	1.67		72.5	30-130			
3/4-Methylphenol	1.24	0.34	mg/Kg wet	1.67		74.3	30-130			
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
2-Nitroaniline	1.75	0.34	mg/Kg wet	1.67		105	40-140			
3-Nitroaniline	1.16	0.34	mg/Kg wet	1.67		69.8	30-140			†
4-Nitroaniline	1.31	0.34	mg/Kg wet	1.67		78.6	40-140			
Nitrobenzene	1.19	0.34	mg/Kg wet	1.67		71.4	40-140			
2-Nitrophenol	1.39	0.34	mg/Kg wet	1.67		83.3	30-130			
4-Nitrophenol	1.45	0.66	mg/Kg wet	1.67		86.9	30-130			
N-Nitrosodimethylamine	0.893	0.34	mg/Kg wet	1.67		53.6	40-140			V-05
N-Nitrosodiphenylamine/Diphenylamine	1.36	0.34	mg/Kg wet	1.67		81.5	40-140			
N-Nitrosodi-n-propylamine	1.17	0.34	mg/Kg wet	1.67		70.1	40-140			
Pentachloronitrobenzene	1.68	0.34	mg/Kg wet	1.67		101	40-140			
Pentachlorophenol	1.31	0.34	mg/Kg wet	1.67		78.4	30-130			
Phenanthrene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140			
Phenol	1.12	0.34	mg/Kg wet	1.67		67.0	30-130			
Pyrene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140			
Pyridine	0.712	0.34	mg/Kg wet	1.67		42.7	30-140			†
1,2,4,5-Tetrachlorobenzene	1.27	0.34	mg/Kg wet	1.67		75.9	40-140			
1,2,4-Trichlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.9	40-140			
2,4,5-Trichlorophenol	1.42	0.34	mg/Kg wet	1.67		85.3	30-130			
2,4,6-Trichlorophenol	1.40	0.34	mg/Kg wet	1.67		83.9	30-130			
Surrogate: 2-Fluorophenol	4.85		mg/Kg wet	6.67		72.7	30-130			
Surrogate: Phenol-d6	5.11		mg/Kg wet	6.67		76.7	30-130			
Surrogate: Nitrobenzene-d5	2.54		mg/Kg wet	3.33		76.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.84		mg/Kg wet	3.33		85.1	30-130			
Surrogate: 2,4,6-Tribromophenol	7.45		mg/Kg wet	6.67		112	30-130			
Surrogate: p-Terphenyl-d14	3.14		mg/Kg wet	3.33		94.1	30-130			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B266943 - SW-846 3546										
LCS Dup (B266943-BSD1)					Prepared: 09/21/20 Analyzed: 09/22/20					
Acenaphthene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140	4.67	30	
Acenaphthylene	1.41	0.17	mg/Kg wet	1.67		84.6	40-140	5.89	30	
Acetophenone	1.25	0.34	mg/Kg wet	1.67		74.9	40-140	4.82	30	
Aniline	0.635	0.34	mg/Kg wet	1.67		38.1	10-140	3.81	50	V-34, V-05 † ‡
Anthracene	1.40	0.17	mg/Kg wet	1.67		83.7	40-140	2.34	30	
Benzidine	0.561	0.66	mg/Kg wet	1.67		33.7 *	40-140	0.651	30	L-04, V-04, V-05, V-34
Benzo(a)anthracene	1.34	0.17	mg/Kg wet	1.67		80.1	40-140	2.89	30	
Benzo(a)pyrene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140	1.81	30	
Benzo(b)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140	1.05	30	
Benzo(g,h,i)perylene	1.69	0.17	mg/Kg wet	1.67		101	40-140	1.71	30	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	1.90	30	
Benzoic Acid	0.465	1.0	mg/Kg wet	1.67		27.9 *	30-130	21.7	50	L-07 ‡
Bis(2-chloroethoxy)methane	1.27	0.34	mg/Kg wet	1.67		76.3	40-140	6.36	30	
Bis(2-chloroethyl)ether	1.08	0.34	mg/Kg wet	1.67		65.0	40-140	3.98	30	
Bis(2-chloroisopropyl)ether	0.975	0.34	mg/Kg wet	1.67		58.5	40-140	4.51	30	V-05
Bis(2-Ethylhexyl)phthalate	1.48	0.34	mg/Kg wet	1.67		89.0	40-140	1.67	30	
4-Bromophenylphenylether	1.47	0.34	mg/Kg wet	1.67		88.5	40-140	1.62	30	
Butylbenzylphthalate	1.37	0.34	mg/Kg wet	1.67		82.4	40-140	0.990	30	
Carbazole	1.30	0.17	mg/Kg wet	1.67		77.9	40-140	0.721	30	
4-Chloroaniline	0.795	0.66	mg/Kg wet	1.67		47.7	10-140	4.94	30	V-34 †
4-Chloro-3-methylphenol	1.37	0.66	mg/Kg wet	1.67		82.3	30-130	1.64	30	
2-Chloronaphthalene	1.21	0.34	mg/Kg wet	1.67		72.8	40-140	4.76	30	
2-Chlorophenol	1.27	0.34	mg/Kg wet	1.67		76.5	30-130	5.07	30	
4-Chlorophenylphenylether	1.36	0.34	mg/Kg wet	1.67		81.7	40-140	2.15	30	
Chrysene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140	0.0763	30	
Dibenz(a,h)anthracene	1.60	0.17	mg/Kg wet	1.67		96.1	40-140	2.08	30	
Dibenzofuran	1.38	0.34	mg/Kg wet	1.67		83.0	40-140	3.95	30	
Di-n-butylphthalate	1.36	0.34	mg/Kg wet	1.67		81.3	40-140	2.91	30	
1,2-Dichlorobenzene	1.15	0.34	mg/Kg wet	1.67		69.2	40-140	6.81	30	
1,3-Dichlorobenzene	1.12	0.34	mg/Kg wet	1.67		67.5	40-140	5.11	30	
1,4-Dichlorobenzene	1.13	0.34	mg/Kg wet	1.67		67.8	40-140	6.68	30	
3,3-Dichlorobenzidine	1.22	0.17	mg/Kg wet	1.67		73.3	20-140	1.09	50	† ‡
2,4-Dichlorophenol	1.34	0.34	mg/Kg wet	1.67		80.4	30-130	2.09	30	
Diethylphthalate	1.36	0.34	mg/Kg wet	1.67		81.7	40-140	1.36	30	
2,4-Dimethylphenol	1.31	0.34	mg/Kg wet	1.67		78.6	30-130	3.86	30	
Dimethylphthalate	1.34	0.34	mg/Kg wet	1.67		80.6	40-140	3.79	30	
4,6-Dinitro-2-methylphenol	1.12	0.34	mg/Kg wet	1.67		67.3	30-130	9.22	30	
2,4-Dinitrophenol	0.588	0.66	mg/Kg wet	1.67		35.3	30-130	34.4 *	30	R-05
2,4-Dinitrotoluene	1.52	0.34	mg/Kg wet	1.67		91.5	40-140	0.175	30	
2,6-Dinitrotoluene	1.58	0.34	mg/Kg wet	1.67		95.0	40-140	2.64	30	
Di-n-octylphthalate	1.39	0.34	mg/Kg wet	1.67		83.6	40-140	3.06	30	
1,2-Diphenylhydrazine/Azobenzene	1.35	0.34	mg/Kg wet	1.67		81.1	40-140	2.09	30	
Fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.1	40-140	0.414	30	
Fluorene	1.38	0.17	mg/Kg wet	1.67		82.9	40-140	2.84	30	
Hexachlorobenzene	1.67	0.34	mg/Kg wet	1.67		100	40-140	3.16	30	V-06
Hexachlorobutadiene	1.41	0.34	mg/Kg wet	1.67		84.7	40-140	7.04	30	
Hexachlorocyclopentadiene	1.12	0.34	mg/Kg wet	1.67		67.5	40-140	10.5	30	
Hexachloroethane	1.18	0.34	mg/Kg wet	1.67		70.9	40-140	8.53	30	
Indeno(1,2,3-cd)pyrene	1.73	0.17	mg/Kg wet	1.67		104	40-140	3.41	30	
Isophorone	1.36	0.34	mg/Kg wet	1.67		81.4	40-140	4.37	30	
1-Methylnaphthalene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140	3.49	30	
2-Methylnaphthalene	1.43	0.17	mg/Kg wet	1.67		85.5	40-140	5.43	30	

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B266943 - SW-846 3546

LCS Dup (B266943-BSD1)

Prepared: 09/21/20 Analyzed: 09/22/20

2-Methylphenol	1.25	0.34	mg/Kg wet	1.67		74.7	30-130	2.99	30	
3/4-Methylphenol	1.27	0.34	mg/Kg wet	1.67		76.1	30-130	2.42	30	
Naphthalene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140	6.29	30	
2-Nitroaniline	1.79	0.34	mg/Kg wet	1.67		107	40-140	2.18	30	
3-Nitroaniline	1.18	0.34	mg/Kg wet	1.67		71.1	30-140	1.87	30	†
4-Nitroaniline	1.28	0.34	mg/Kg wet	1.67		77.1	40-140	1.90	30	
Nitrobenzene	1.28	0.34	mg/Kg wet	1.67		76.9	40-140	7.42	30	
2-Nitrophenol	1.48	0.34	mg/Kg wet	1.67		88.9	30-130	6.48	30	
4-Nitrophenol	1.42	0.66	mg/Kg wet	1.67		85.1	30-130	2.05	50	‡
N-Nitrosodimethylamine	0.900	0.34	mg/Kg wet	1.67		54.0	40-140	0.743	30	V-05
N-Nitrosodiphenylamine/Diphenylamine	1.40	0.34	mg/Kg wet	1.67		84.1	40-140	3.19	30	
N-Nitrosodi-n-propylamine	1.22	0.34	mg/Kg wet	1.67		73.5	40-140	4.62	30	
Pentachloronitrobenzene	1.75	0.34	mg/Kg wet	1.67		105	40-140	4.12	30	
Pentachlorophenol	1.30	0.34	mg/Kg wet	1.67		77.9	30-130	0.640	30	
Phenanthrene	1.37	0.17	mg/Kg wet	1.67		82.0	40-140	2.94	30	
Phenol	1.16	0.34	mg/Kg wet	1.67		69.7	30-130	3.98	30	
Pyrene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140	1.89	30	
Pyridine	0.778	0.34	mg/Kg wet	1.67		46.7	30-140	8.81	30	†
1,2,4,5-Tetrachlorobenzene	1.35	0.34	mg/Kg wet	1.67		80.8	40-140	6.20	30	
1,2,4-Trichlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.4	40-140	8.63	30	
2,4,5-Trichlorophenol	1.46	0.34	mg/Kg wet	1.67		87.4	30-130	2.48	30	
2,4,6-Trichlorophenol	1.45	0.34	mg/Kg wet	1.67		87.3	30-130	3.90	30	
Surrogate: 2-Fluorophenol	5.01		mg/Kg wet	6.67		75.2	30-130			
Surrogate: Phenol-d6	5.20		mg/Kg wet	6.67		78.1	30-130			
Surrogate: Nitrobenzene-d5	2.68		mg/Kg wet	3.33		80.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.97		mg/Kg wet	3.33		89.0	30-130			
Surrogate: 2,4,6-Tribromophenol	7.42		mg/Kg wet	6.67		111	30-130			
Surrogate: p-Terphenyl-d14	3.08		mg/Kg wet	3.33		92.3	30-130			

Batch B267971 - SW-846 3546

Blank (B267971-BLK1)

Prepared: 10/05/20 Analyzed: 10/06/20

Acenaphthene (SIM)	ND	0.0083	mg/Kg wet							
Acenaphthylene (SIM)	ND	0.0083	mg/Kg wet							
Anthracene (SIM)	ND	0.0067	mg/Kg wet							
Benzo(a)anthracene (SIM)	ND	0.0017	mg/Kg wet							
Benzo(a)pyrene (SIM)	ND	0.0017	mg/Kg wet							
Benzo(b)fluoranthene (SIM)	ND	0.0017	mg/Kg wet							
Benzo(g,h,i)perylene (SIM)	ND	0.017	mg/Kg wet							
Benzo(k)fluoranthene (SIM)	ND	0.0067	mg/Kg wet							
Chrysene (SIM)	ND	0.0067	mg/Kg wet							
Dibenz(a,h)anthracene (SIM)	ND	0.0017	mg/Kg wet							
Fluoranthene (SIM)	ND	0.017	mg/Kg wet							
Fluorene (SIM)	ND	0.033	mg/Kg wet							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.0067	mg/Kg wet							
2-Methylnaphthalene (SIM)	ND	0.033	mg/Kg wet							
Naphthalene (SIM)	ND	0.033	mg/Kg wet							
Phenanthrene (SIM)	ND	0.0083	mg/Kg wet							
Pyrene (SIM)	ND	0.033	mg/Kg wet							
B(a)P-TE	0.0		mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.44		mg/Kg wet	3.33		73.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.12		mg/Kg wet	3.33		63.7	30-130			

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B267971 - SW-846 3546										
Blank (B267971-BLK1)										
Prepared: 10/05/20 Analyzed: 10/06/20										
Surrogate: p-Terphenyl-d14	2.27		mg/Kg wet	3.33		68.2	30-130			
LCS (B267971-BS1)										
Prepared: 10/05/20 Analyzed: 10/06/20										
Acenaphthene (SIM)	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			
Acenaphthylene (SIM)	1.25	0.17	mg/Kg wet	1.67		74.9	40-140			
Anthracene (SIM)	1.27	0.13	mg/Kg wet	1.67		76.5	40-140			
Benzo(a)anthracene (SIM)	1.22	0.033	mg/Kg wet	1.67		73.4	40-140			
Benzo(a)pyrene (SIM)	1.22	0.033	mg/Kg wet	1.67		73.2	40-140			
Benzo(b)fluoranthene (SIM)	1.37	0.033	mg/Kg wet	1.67		82.2	40-140			
Benzo(g,h,i)perylene (SIM)	1.19	0.33	mg/Kg wet	1.67		71.6	40-140			
Benzo(k)fluoranthene (SIM)	1.29	0.13	mg/Kg wet	1.67		77.6	40-140			
Chrysene (SIM)	1.25	0.13	mg/Kg wet	1.67		75.1	40-140			
Dibenz(a,h)anthracene (SIM)	1.20	0.033	mg/Kg wet	1.67		71.7	40-140			
Fluoranthene (SIM)	1.31	0.33	mg/Kg wet	1.67		78.8	40-140			
Fluorene (SIM)	1.33	0.67	mg/Kg wet	1.67		80.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	1.21	0.13	mg/Kg wet	1.67		72.6	40-140			
2-Methylnaphthalene (SIM)	1.20	0.67	mg/Kg wet	1.67		72.3	40-140			
Naphthalene (SIM)	1.15	0.67	mg/Kg wet	1.67		68.9	40-140			
Phenanthrene (SIM)	1.22	0.17	mg/Kg wet	1.67		73.1	40-140			
Pyrene (SIM)	1.16	0.67	mg/Kg wet	1.67		69.3	40-140			
Surrogate: Nitrobenzene-d5	2.60		mg/Kg wet	3.33		78.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.33		mg/Kg wet	3.33		69.9	30-130			
Surrogate: p-Terphenyl-d14	1.95		mg/Kg wet	3.33		58.6	30-130			
LCS Dup (B267971-BSD1)										
Prepared: 10/05/20 Analyzed: 10/06/20										
Acenaphthene (SIM)	1.28	0.17	mg/Kg wet	1.67		76.6	40-140	0.365	20	
Acenaphthylene (SIM)	1.24	0.17	mg/Kg wet	1.67		74.3	40-140	0.805	20	
Anthracene (SIM)	1.27	0.13	mg/Kg wet	1.67		76.0	40-140	0.682	20	
Benzo(a)anthracene (SIM)	1.21	0.033	mg/Kg wet	1.67		72.6	40-140	1.04	20	
Benzo(a)pyrene (SIM)	1.21	0.033	mg/Kg wet	1.67		72.5	40-140	0.933	20	
Benzo(b)fluoranthene (SIM)	1.35	0.033	mg/Kg wet	1.67		81.1	40-140	1.32	20	
Benzo(g,h,i)perylene (SIM)	1.18	0.33	mg/Kg wet	1.67		70.9	40-140	0.955	20	
Benzo(k)fluoranthene (SIM)	1.28	0.13	mg/Kg wet	1.67		76.5	40-140	1.35	20	
Chrysene (SIM)	1.24	0.13	mg/Kg wet	1.67		74.4	40-140	0.909	20	
Dibenz(a,h)anthracene (SIM)	1.19	0.033	mg/Kg wet	1.67		71.2	40-140	0.728	20	
Fluoranthene (SIM)	1.30	0.33	mg/Kg wet	1.67		77.9	40-140	1.12	20	
Fluorene (SIM)	1.33	0.67	mg/Kg wet	1.67		79.9	40-140	0.0501	20	
Indeno(1,2,3-cd)pyrene (SIM)	1.20	0.13	mg/Kg wet	1.67		71.8	40-140	1.11	20	
2-Methylnaphthalene (SIM)	1.21	0.67	mg/Kg wet	1.67		72.8	40-140	0.717	20	
Naphthalene (SIM)	1.17	0.67	mg/Kg wet	1.67		70.0	40-140	1.61	20	
Phenanthrene (SIM)	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	0.879	20	
Pyrene (SIM)	1.15	0.67	mg/Kg wet	1.67		68.8	40-140	0.811	20	
Surrogate: Nitrobenzene-d5	2.65		mg/Kg wet	3.33		79.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.26		mg/Kg wet	3.33		67.8	30-130			
Surrogate: p-Terphenyl-d14	1.96		mg/Kg wet	3.33		58.9	30-130			

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

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B266580 - SW-846 3540C
Blank (B266580-BLK1)

Prepared: 09/16/20 Analyzed: 09/21/20

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.152		mg/Kg wet	0.200		75.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.160		mg/Kg wet	0.200		79.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.155		mg/Kg wet	0.200		77.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg wet	0.200		85.2	30-150			

LCS (B266580-BS1)

Prepared: 09/16/20 Analyzed: 09/21/20

Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		73.0	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.9	40-140			
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		68.8	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		70.0	40-140			
Surrogate: Decachlorobiphenyl	0.163		mg/Kg wet	0.200		81.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.167		mg/Kg wet	0.200		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.146		mg/Kg wet	0.200		73.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.161		mg/Kg wet	0.200		80.3	30-150			

LCS Dup (B266580-BSD1)

Prepared: 09/16/20 Analyzed: 09/21/20

Aroclor-1016	0.14	0.020	mg/Kg wet	0.200		70.3	40-140	3.81	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		74.5	40-140	3.27	30	
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		64.1	40-140	7.07	30	
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		64.6	40-140	8.04	30	
Surrogate: Decachlorobiphenyl	0.149		mg/Kg wet	0.200		74.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.152		mg/Kg wet	0.200		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.139		mg/Kg wet	0.200		69.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.200		77.8	30-150			

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

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B266184 - SW-846 7471										
Blank (B266184-BLK1)					Prepared: 09/10/20 Analyzed: 09/11/20					
Mercury	ND	0.025	mg/Kg wet							
LCS (B266184-BS1)					Prepared: 09/10/20 Analyzed: 09/11/20					
Mercury	6.09	0.37	mg/Kg wet	5.99		102	74.1-126			
LCS Dup (B266184-BSD1)					Prepared: 09/10/20 Analyzed: 09/11/20					
Mercury	6.42	0.38	mg/Kg wet	5.99		107	74.1-126	5.15	20	
Batch B266522 - SW-846 3050B										
Blank (B266522-BLK1)					Prepared: 09/15/20 Analyzed: 09/17/20					
Arsenic	ND	3.3	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Cadmium	ND	0.33	mg/Kg wet							
Chromium	ND	0.67	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
LCS (B266522-BS1)					Prepared: 09/15/20 Analyzed: 09/17/20					
Arsenic	91.9	10	mg/Kg wet	97.6		94.2	82.8-116.8			
Barium	330	5.0	mg/Kg wet	320		103	82.5-117.5			
Cadmium	118	1.0	mg/Kg wet	114		103	82.8-117.5			
Chromium	148	2.0	mg/Kg wet	147		101	81.6-117.7			
Lead	103	1.5	mg/Kg wet	105		98.3	82.6-117.1			
Selenium	88.4	10	mg/Kg wet	93.1		95.0	78.9-121.4			
Silver	33.1	1.0	mg/Kg wet	32.0		104	79.7-120			
LCS Dup (B266522-BSD1)					Prepared: 09/15/20 Analyzed: 09/17/20					
Arsenic	92.0	10	mg/Kg wet	97.6		94.3	82.8-116.8	0.0581	30	
Barium	339	5.0	mg/Kg wet	320		106	82.5-117.5	2.69	20	
Cadmium	117	1.0	mg/Kg wet	114		102	82.8-117.5	1.01	20	
Chromium	153	2.0	mg/Kg wet	147		104	81.6-117.7	3.20	30	
Lead	101	1.5	mg/Kg wet	105		95.9	82.6-117.1	2.48	30	
Selenium	90.9	10	mg/Kg wet	93.1		97.7	78.9-121.4	2.82	30	
Silver	33.9	1.0	mg/Kg wet	32.0		106	79.7-120	2.22	30	
Reference (B266522-SRM1) MRL Check					Prepared: 09/15/20 Analyzed: 09/17/20					
Lead	0.501	0.53	mg/Kg wet	0.531		94.4	80-120			

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

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B266867 - % Solids

Duplicate (B266867-DUP3)		Source: 2010285-01		Prepared: 09/19/20 Analyzed: 09/20/20						
% Solids	93.6		% Wt		93.1			0.538	10	
Duplicate (B266867-DUP4)		Source: 2010285-02		Prepared: 09/19/20 Analyzed: 09/20/20						
% Solids	91.6		% Wt		91.9			0.363	10	
Duplicate (B266867-DUP5)		Source: 2010285-03		Prepared: 09/19/20 Analyzed: 09/20/20						
% Solids	90.7		% Wt		91.4			0.842	10	

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B266580-BS1 Date(s) Analyzed: 09/21/2020 09/21/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B266580-BSD1 Date(s) Analyzed: 09/21/2020 09/21/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.15	6.9
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-06	Sample was extracted past the recommended holding time.
H-10	Analysis was requested after the recommended holding time had passed.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-03	Surrogate recovery outside of control limits due to suspected sample matrix interference.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
S-19	Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010D in Soil</i>	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
<i>SW-846 8260C-D in Soil</i>	
Acetone	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Soil</i>	
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
Dibromomethane	NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
trans-1,4-Dichloro-2-butene	NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
Diethyl Ether	ME
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Soil</i>	
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
<i>SW-846 8270D-E in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Soil</i>	
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	NY,NC
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
<i>SW-846 8270D-E in Water</i>	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NC
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2021
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2021
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

2010285



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: **KAS, INC.**
 Address: **589 Avenue B, Suite 10, Willsboro, VT**
 Phone: **802-353-0456**
 Project Name: **North Beach Maintenance**
 Project Location: **Burlington, VT**
 Project Number: **502200579**
 Project Manager: **Jeremy Roberts**

Con-Test Quote Name/Number:

Invoice Recipient:

Sampled By:

Con-Test Work Order#

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

COMP/GRAB

Matrix Code

Conc Code

VIALS

GLASS

PLASTIC

BACTERIA

ENCORE

Format:

Other:

CLP Like Data Pkg Required:

Email To:

Fax To #:

Client Comments:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

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Doc # 381 Rev 2_06262019

 39 Spruce Street
 East Longmeadow, MA 01028
 CHAIN OF CUSTODY RECORD
 http://www.contestlabs.com

Requested Turnaround Time

7-Day

10-Day

Due Date:

Field Filtered

Lab to Filter

Field Filtered

Lab to Filter

Format:

Other:

CLP Like Data Pkg Required:

Email To:

Fax To #:

Client Comments:

Date/Time:

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ANALYSIS REQUESTED

7-Day

10-Day

Due Date:

Field Filtered

Lab to Filter

Field Filtered

Lab to Filter

Format:

Other:

CLP Like Data Pkg Required:

Email To:

Fax To #:

Client Comments:

Date/Time:

Date/Time:

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Date/Time:

Preservation Code

Code to be used only

Total Number Of:

VIALS

GLASS

PLASTIC

BACTERIA

ENCORE

Glassware in the fridge?

Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for

missing samples from prepacked

coolers

1 Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water

A = Air

S = Soil

SL = Sludge

SOL = Solid

O = Other (please

define)

2 Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium

Thiosulfate

O = Other (please

define)

Please use the following codes to indicate

possible sample concentration within the Conc

Code column above:

H - High; M - Medium; L - Low; C - Clean; U -

Unknown

MA MCP Required

MCP Certification Form Required

CT RCP Required

RCP Certification Form Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

Preservation Code

Code to be used only

Total Number Of:

VIALS

GLASS

PLASTIC

BACTERIA

ENCORE

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Thiosulfate

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define)

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Unknown

MA MCP Required

MCP Certification Form Required

CT RCP Required

RCP Certification Form Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

Preservation Code

Code to be used only

Total Number Of:

VIALS

GLASS

PLASTIC

BACTERIA

ENCORE

Glassware in the fridge?

Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for

missing samples from prepacked

coolers

1 Matrix Codes:

GW = Ground Water

WW = Waste Water

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A = Air

S = Soil

SL = Sludge

SOL = Solid

O = Other (please

define)

2 Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium

Thiosulfate

O = Other (please

define)

Please use the following codes to indicate

possible sample concentration within the Conc

Code column above:

H - High; M - Medium; L - Low; C - Clean; U -

Unknown

MA MCP Required

MCP Certification Form Required

CT RCP Required

RCP Certification Form Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

MA State Day Required

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples _____



con-test[®]
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False

Statement will be brought to the attention of the Client - State True or False

Client KAS

Received By MA Date 9/4/20 Time 1340

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 4 Actual Temp - 2.4
By Blank # Actual Temp -

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?

Are there Rushes? F Who was notified?

Are there Short Holds? F Who was notified?

Is there enough Volume? T

Is there Headspace where applicable? T MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid Base

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>3</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	<u>6</u>	Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments: